

```

      D  V  M  R  V  A  A  F  T  S  L  L  Q  I  S  V  S  A
      I  W  W  G  Y  P  P  S  R  R  C  F  S  S  R  C  P  R
      S  G  G  D  T  R  R  R  V  D  V  S  A  P  D  V  R  V
      ---
3'   CCT AGG TGG TAG GCA TGC CGC CGC TTG CAG CTG TCT TCG ACC TAG CTG TGC CTG
      9      18      27      36      45      54
5'   GGA TCC ACC ATC CGT ACG GCG GCG AAC GTC GAC AGA AGC TGG ATC GAC ACG GAC
      ---
      G  S  T  I  R  T  A  A  N  V  D  R  S  W  I  D  T  D
      D  P  P  S  V  R  R  R  T  S  T  E  A  G  S  T  R  T
      I  H  H  P  Y  G  G  E  R  R  Q  K  L  D  R  H  G  R

      R  A  N  N  L  S  R  R  P  P  R  G  T  V  T  T  L  S
      A  R  T  T  *  R  G  G  R  R  G  G  P  S  P  P  *  R
      R  A  R  Q  E  A  V  A  E  A  A  E  R  H  R  H  D  V
      ---
CGC GCG CGC AAC AAG TCG CTG GCG GAG CCG CCG GAG GGC CAC TGC CAC CAG TTG
      63      72      81      90      99      108
GCG GCG GCG TTG TTC AGC GAC CGC CTC GGC GGC CTC CCG GTG ACG GTG GTC AAC
      ---
      A  R  A  L  F  S  D  R  L  G  G  L  P  V  T  V  V  N
      R  A  R  C  S  A  T  A  S  A  A  S  R  *  R  W  S  T
      A  R  V  V  Q  R  P  P  R  R  P  P  G  D  G  G  Q  R

      A  S  A  A  P  T  A  S  I  C  K  P  A  P  R  S  R  R
      R  P  R  P  R  R  R  R  S  A  S  R  R  P  G  R  G  G
      V  R  V  R  G  A  D  G  L  H  V  E  A  R  A  A  V  A
      ---
CTG CGC CTG CGC CGG CCG CAG CGG CTC TAC GTG AAG CCG CGC CCG GCG CTG GCG
      117      126      135      144      153      162
GAC GCG GAC GCG GCC GGC GTC GCC GAG ATG CAC TTC GGC GCG GGC CGC GAC CGC
      ---
      D  A  D  A  A  G  V  A  E  M  H  F  G  A  G  R  D  R
      T  R  T  R  P  A  S  P  R  C  T  S  A  R  A  A  T  A
      R  G  R  G  R  R  R  R  D  A  L  R  R  G  P  R  P  P

      P  V  T  I  R  R  V  R  P  V  P  M  P  L  A  S  N  M
      P  C  R  S  G  G  *  G  R  C  P  C  R  C  R  A  T  *
      P  A  G  H  D  E  E  G  E  A  R  A  D  A  A  R  Q  E
      ---
GCC CCG TGG CAC TAG GAG GAG TGG GAG CCG TGC CCG TAG CCG TCG CGC GAC AAG
      171      180      189      198      207      216
CGG GGC ACC GTG ATC CTC CTC ACC CTC GGC ACG GGC ATC GGC AGC GCG CTG TTC
      ---
      R  G  T  V  I  L  L  T  L  G  T  G  I  G  S  A  L  F
      G  A  P  *  S  S  S  P  S  A  R  A  S  A  A  R  C  S
      G  H  R  D  P  P  H  P  R  H  G  H  R  Q  R  A  V  H

      S  P  A  R  T  G  L  V  S  S  P  W  R  S  S  W  P  W
      R  R  R  G  P  G  W  C  P  A  P  G  G  R  V  G  H  G
      D  V  A  G  Q  D  G  V  R  L  Q  A  V  E  F  E  M  A
      ---
TAG CTG CCG CGG GAC CAG GGG TTG TGC CTC GAC CCG GTG GAG CTT GAG GTA CCG
  
```

		225			234			243			252			261			270
ATC	GAC	GGC	GCC	CTG	GTC	CCC	AAC	ACG	GAG	CTG	GGC	CAC	CTC	GAA	CTC	CAT	GGC

I	D	G	A	L	V	P	N	T	E	L	G	H	L	E	L	H	G
S	T	A	P	W	S	P	T	R	S	W	A	T	S	N	S	M	A
R	R	R	P	G	P	Q	H	G	A	G	P	P	R	T	P	W	P
S	A	S	F	R	A	E	L	L	A	L	S	S	S	S	S	L	Q
H	R	R	S	A	R	R	W	C	P	W	P	P	R	P	A	S	S
M	V	G	L	L	A	G	G	A	L	G	P	L	V	L	L	Q	A

GTA	CTG	CGG	CTC	TTC	GCG	CGG	AGG	TCG	TTC	CGG	TCC	CTC	CTG	CTC	CTC	GAC	TCG
		279			288			297			306			315			324
CAT	GAC	GCC	GAG	AAG	CGC	GCC	TCC	AGC	AAG	GCC	AGG	GAG	GAC	GAG	GAG	CTG	AGC

H	D	A	E	K	R	A	S	S	K	A	R	E	D	E	E	L	S
M	T	P	R	S	A	P	P	A	R	P	G	R	T	R	S	*	A
*	R	R	E	A	R	L	Q	Q	G	Q	G	G	R	G	A	E	L
S	C	Q	A	R	R	T	W	F	Y	R	A	W	T	S	I	S	N
P	A	S	P	G	G	R	G	S	T	G	R	G	H	R	S	A	T
P	L	V	P	G	A	A	D	L	L	V	E	G	M	D	L	H	Q

ACC	CTC	GTG	ACC	CGG	GCG	GCG	CAG	GTC	TTC	ATG	GAG	CGG	GTA	CAG	CTC	TAC	GAC
		333			342			351			360			369			378
TGG	GAG	CAC	TGG	GCC	CGC	CGC	GTC	CAG	AAG	TAC	CTC	GCC	CAT	GTC	GAG	ATG	CTG

W	E	H	W	A	R	R	V	Q	K	Y	L	A	H	V	E	M	L
G	S	T	G	P	A	A	S	R	S	T	S	P	M	S	R	C	C
G	A	L	G	P	P	R	P	E	V	P	R	P	C	R	D	A	V
E	G	S	S	N	M	M	P	P	P	T	L	R	L	D	W	L	N
R	G	P	A	T	*	*	R	R	R	P	S	G	C	T	G	C	T
E	G	R	L	Q	E	D	D	A	A	P	H	A	A	L	G	V	L

AAG	AGG	GGC	CTC	GAC	AAG	TAG	TAG	CCG	CCG	CCC	CAC	TCG	GCG	TTC	AGG	GTG	TTC
		387			396			405			414			423			432
TTC	TCC	CCG	GAG	CTG	TTC	ATC	ATC	GGC	GGC	GGG	GTG	AGC	CGC	AAG	TCC	CAC	AAG

F	S	P	E	L	F	I	I	G	G	G	V	S	R	K	S	H	K
S	P	R	S	C	S	S	S	A	A	G	*	A	A	S	P	T	S
L	P	G	A	V	H	H	R	R	R	G	E	P	Q	V	P	Q	V
R	C	R	M	S	P	M	L	A	S	I	T	G	A	W	S	C	F
G	A	G	*	R	P	C	*	P	P	S	R	G	P	G	A	A	S
E	Q	V	E	D	L	A	D	L	R	L	D	D	R	G	L	Q	L

AAG	GAC	GTG	GAG	TAG	CTC	CCG	TAG	TTC	CGC	CTC	TAG	CAG	GGC	CGG	GTC	GAC	GTC
		441			450			459			468			477			486
TTC	CTG	CAC	CTC	ATC	GAG	GGC	ATC	AAG	GCG	GAG	ATC	GTC	CCG	GCC	CAG	CTG	CAG

F	L	H	L	I	E	G	I	K	A	E	I	V	P	A	Q	L	Q
S	C	T	S	S	R	A	S	R	R	R	S	S	R	P	S	C	R
P	A	P	H	R	G	H	Q	G	G	D	R	P	G	P	A	A	E
L	A	P	I	T	P	A	A	I	R	A	A	S	F	S	P	*	A
C	R	R	S	R	R	P	P	S	A	P	P	P	S	P	R	S	P

V	V	G	P	D	D	P	R	R	H	P	R	R	L	L	V	A	L
TTG	TTG	CGG	CCC	TAG	CAG	CCC	CGC	CGC	TAC	GCC	CGC	CGC	CTC	TTC	CTG	CCG	ATC
		495			504			513			522			531			540
AAC	AAC	GCC	GGG	ATC	GTC	GGG	GCG	GCG	ATG	CGG	GCG	GCG	GAG	AAG	GAC	GGC	TAG
N	N	A	G	I	V	G	A	A	M	R	A	A	E	K	D	G	*
T	T	P	G	S	S	G	R	R	C	G	R	R	R	R	T	A	R
Q	R	R	D	R	R	G	G	D	A	G	G	G	E	G	R	L	G
G	R	R	R	P	S	G	S	S	L	A	Q	R	R	D	G	P	G
G	A	V	G	P	H	D	L	R	C	P	R	A	A	T	V	Q	V
G	R	S	A	P	T	I	W	V	V	P	G	P	P	P	*	R	S
CGG	GGC	GCT	GCG	GCC	CCA	CTA	GGT	CTG	CTG	TCC	CGG	ACC	GCC	GCC	AGT	GGA	CCT
		549			558			567			576			585			594
GCC	CCG	CGA	CGC	CGG	GGT	GAT	CCA	GAC	GAC	AGG	GCC	TGG	CGG	CGG	TCA	CCT	GGA
A	P	R	R	R	G	D	P	D	D	R	A	W	R	R	S	P	G
P	R	D	A	G	V	I	Q	T	T	G	P	G	G	G	H	L	D
P	A	T	P	G	*	S	R	R	Q	G	L	A	A	V	T	W	T
A	A	P	R	P	G	A	P	W	C	G	S	R	G	H	P	*	S
P	P	P	G	R	G	Q	P	G	A	A	P	D	E	T	R	D	R
R	R	R	A	A	A	R	R	A	L	L	R	I	K	R	A	T	V
GGC	CGC	CGC	CCG	GCG	CCG	GGA	CGC	CCG	GTC	GTC	GGC	CTA	GAA	GGC	ACG	CCA	GTG
		603			612			621			630			639			648
CCG	GCG	GCG	GGC	CGC	GGC	CCT	GCG	GGC	CAG	CAG	CCG	GAT	CTT	CCG	TGC	GGT	CAC
P	A	A	G	R	G	P	A	G	Q	Q	P	D	L	P	C	G	H
R	R	R	A	A	A	L	R	A	S	S	R	I	F	R	A	V	T
G	G	G	P	R	P	C	G	P	A	A	G	S	S	V	R	S	R
S	V	P	S	*	R	G	E	T	C	G	G	P	R	P	P	S	P
H	S	R	R	D	A	D	R	R	V	A	V	R	G	P	H	R	P
I	L	G	A	I	L	T	G	G	Y	L	W	G	A	Q	T	A	L
CTA	CTC	TGG	CCG	CTA	GTC	GCA	GGG	AGG	CAT	GTC	GGT	GGG	CCG	GAC	CCA	CCG	CTC
		657			666			675			684			693			702
GAT	GAG	ACC	GGC	GAT	CAG	CGT	CCC	TCC	GTA	CAG	CCA	CCC	GGC	CTG	GGT	GGC	GAG
D	E	T	G	D	Q	R	P	S	V	Q	P	P	G	L	G	G	E
M	R	P	A	I	S	V	P	P	Y	S	H	P	A	W	V	A	R
*	D	R	R	S	A	S	L	R	T	A	T	R	P	G	W	R	G
P	S	S	G	W	*	T	D	A	S	G	G	A	A	T	P	W	R
R	H	L	A	G	D	P	T	R	R	D	G	R	R	Q	R	G	G
A	T	F	L	G	M	L	H	G	G	I	G	G	G	S	D	A	V
CCG	CCA	CTT	CTC	GGG	GTA	GTC	CAC	AGG	CGG	CTA	GGG	GGG	CGG	CGA	CAG	CCG	GTG
		711			720			729			738			747			756
GGC	GGT	GAA	GAG	CCC	CAT	CAG	GTG	TCC	GCC	GAT	CCC	CCC	GCC	GCT	GTC	GGC	CAC
G	G	E	E	P	H	Q	V	S	A	D	P	P	A	A	V	G	H
A	V	K	S	P	I	R	C	P	P	I	P	P	P	L	S	A	T
R	*	R	A	P	S	G	V	R	R	S	P	R	R	C	R	P	P

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C	W	G	W	P	S	P	S	R	Y	W	W	R	R	P	R	W	T
A	G	A	G	R	R	L	R	D	T	G	G	G	A	R	D	G	P
P	V	L	G	V	A	F	A	I	P	V	V	V	P	A	T	A	L

GCC	GTG	GTC	GGG	GTG	CCG	CTT	CCG	CTA	GCC	ATG	GTG	GTG	GCC	GCG	CCA	GCG	GTC
		765				774			783			792		801			810
CGG	CAC	CAG	CCC	CAC	GGC	GAA	GGC	GAT	CGG	TAC	CAC	CAC	CGG	GCG	GGT	GCG	CAG

R	H	Q	P	H	G	E	G	D	R	Y	H	H	R	R	G	R	Q
G	T	S	P	T	A	K	A	I	G	T	T	T	G	A	V	A	R
A	P	A	P	R	R	R	R	S	V	P	P	P	A	R	S	P	G

A	G	A	C	G	C	R	R	*	S	A	C	P	C	S	C	C	A
R	G	Q	A	G	V	G	G	D	P	R	V	R	A	P	V	A	R
D	G	R	R	V	W	V	A	T	L	V	C	V	P	L	F	L	V

CAG	CGG	GGA	GCG	GTG	GGT	GTG	GCG	GCA	GTC	CTG	CGT	GTG	CCC	GTC	CTT	GTC	GTG
		819				828			837			846		855			864
GTC	GCC	CCT	GCG	CAC	CCA	CAC	GCG	CGT	CAG	GAC	GCA	CAC	GGG	CAG	GAA	CAG	CAC

V	A	P	A	H	P	H	R	R	Q	D	A	H	G	Q	E	Q	H
S	P	L	R	T	H	T	A	V	R	T	H	T	G	R	N	S	T
R	P	C	A	P	T	P	P	S	G	R	T	R	A	G	T	A	R

T	C	R	S	R	R	G	S	C	C	R	T	S	T	A	S	C	S
Q	V	A	H	A	V	V	R	V	A	A	L	R	P	L	R	A	P
S	Y	L	T	L	S	S	G	F	L	L	S	D	L	Y	G	L	L

CGA	CAT	GTC	GCA	CTC	GCT	GCT	GGG	CTT	GTC	GTC	GCT	CAG	CTC	CAT	CGG	CTC	GTC
		873				882			891			900		909			918
GCT	GTA	CAG	CGT	GAG	CGA	CGA	CCC	GAA	CAG	CAG	CGA	GTC	GAG	GTA	GCC	GAG	CAG

A	V	Q	R	E	R	R	P	E	Q	Q	R	V	E	V	A	E	Q
L	Y	S	V	S	D	D	P	N	S	S	E	S	R	*	P	S	R
C	T	A	*	A	T	T	R	T	A	A	S	R	G	S	R	A	G

C	*	P	A	A	S	C	A	A	A	W	G	P	*	G	P	T	P
A	D	R	R	R	L	V	P	R	R	G	A	R	D	A	P	P	Q
L	M	V	A	G	C	F	L	G	G	G	L	G	T	L	R	P	N

CTC	GTA	GTG	CCG	CGG	CGT	CTT	GTC	CGG	CGG	CGG	GTC	GGG	CCA	GTC	GGC	CCC	CAA
		927				936			945			954		963			972
GAG	CAT	CAC	GGC	GCC	GCA	GAA	CAG	GCC	GCC	GCC	CAG	CCC	GGT	CAG	CCG	GGG	GTT

E	H	H	G	A	A	E	Q	A	A	A	Q	P	G	Q	P	G	V
S	I	T	A	P	Q	N	R	P	P	P	S	P	V	S	R	G	L
A	S	R	R	R	R	T	G	R	R	P	A	R	S	A	G	G	W

F	G	A	C	P	R	P	R	P	P	R	G	P	A	G	Y	R	R
S	V	P	A	P	G	P	G	R	P	A	A	R	P	A	T	G	G
P	F	R	R	L	A	Q	A	A	P	P	P	G	P	R	R	V	A

CCC	TTT	GGC	GCG	GTC	CCG	GAC	CCG	GCG	CCC	CCC	GCC	GGG	CCC	GCG	GGC	ATG	GCG
		981				990			999			1008		1017			1026
GGG	AAA	CCG	GCG	CAG	GGC	CTG	GGC	GCG	GGG	GGG	CGG	CCC	GGG	GCG	CCG	TAC	GCG

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Q	V	S	S	R	L	L	V	P	G	W	G	L	W	G	Q	L	G
GAC	GTG	GCT	TCT	AGC	TTC	TTC	CTG	GCC	CGG	GGT	CGG	GTC	GGT	CGG	GAC	TTC	AGG
	1521				1530			1539			1548			1557			1566
CTG	CAC	CGA	AGA	TCG	AAG	AAG	GAC	CGG	GCC	CCA	GCC	CAG	CCA	GCC	CTG	AAG	TCC
L	H	R	R	S	K	K	D	R	A	P	A	Q	P	A	L	K	S
C	T	E	D	R	R	R	T	G	P	Q	P	S	Q	P	*	S	P
A	P	K	I	E	E	G	P	G	P	S	P	A	S	P	E	V	L
*	T	R	S	T	A	V	H	R	E	R	D	S	D	D	T	Q	R
E	R	V	P	L	R	L	T	D	S	V	I	P	I	T	P	R	G
R	V	Y	P	F	D	C	R	T	A	*	S	R	F	R	R	D	A
AGA	GTG	CAT	GCC	CTT	CAG	CGT	TGC	ACA	GCG	AGT	GCT	AGC	CTT	AGC	AGC	CAG	ACG
	1575				1584			1593			1602			1611			1620
TCT	CAC	GTA	CGG	GAA	GTC	GCA	ACG	TGT	CGC	TCA	CGA	TCG	GAA	TCG	TCG	GTC	TGC
S	H	V	R	E	V	A	T	C	R	S	R	S	E	S	S	V	C
L	T	Y	G	K	S	Q	R	V	A	H	D	R	N	R	R	S	A
S	R	T	G	S	R	N	V	S	L	T	I	G	I	V	G	L	P
I	D	A	L	R	G	Q	E	V	G	Q	G	L	V	V	H	Q	R
F	T	P	L	D	V	R	N	L	A	R	V	L	F	S	T	S	A
S	H	R	C	T	S	G	T	*	R	G	S	W	S	R	R	A	P
GCT	TAC	AGC	CGT	TCA	GCT	GGG	ACA	AGT	TGC	GGG	ACT	GGT	TCT	TGC	TGC	ACG	ACC
	1629				1638			1647			1656			1665			1674
CGA	ATG	TCG	GCA	AGT	CGA	CCC	TGT	TCA	ACG	CCC	TGA	CCA	AGA	ACG	ACG	TGC	TGG
R	M	S	A	S	R	P	C	S	T	P	*	P	R	T	T	C	W
E	C	R	Q	V	D	P	V	Q	R	P	D	Q	E	R	R	A	G
N	V	G	K	S	T	L	F	N	A	L	T	K	N	D	V	L	A
G	V	V	R	E	G	R	D	L	G	V	D	T	D	H	A	D	G
A	L	*	G	N	A	V	I	S	G	L	T	P	T	T	P	T	G
P	W	S	G	T	R	W	S	R	A	W	R	R	H	R	P	R	G
GCC	GGT	TGA	TGG	GCA	AGC	GGT	GCT	AGC	TCG	GGT	TGC	AGC	CAC	AGC	ACC	CGC	AGG
	1683				1692			1701			1710			1719			1728
CGG	CCA	ACT	ACC	CGT	TCG	CCA	CGA	TCG	AGC	CCA	ACG	TCG	GTG	TCG	TGG	GCG	TCC
R	P	T	T	R	S	P	R	S	S	P	T	S	V	S	W	A	S
G	Q	L	P	V	R	H	D	R	A	Q	R	R	C	R	G	R	P
A	N	Y	P	F	A	T	I	E	P	N	V	G	V	V	G	V	P
V	C	A	E	G	L	Q	G	L	D	E	G	G	L	A	D	E	R
S	A	R	R	V	L	N	A	S	I	K	E	E	W	R	M	R	G
R	R	V	G	*	W	T	P	R	S	R	R	R	G	A	C	G	G
GGC	TGC	GTG	CGG	AGT	GGT	TCA	ACC	GGC	TCT	AGA	AGA	GGA	GGG	TCG	CGT	AGG	AGG
	1737				1746			1755			1764			1773			1782
CCG	ACG	CAC	GCC	TCA	CCA	AGT	TGG	CCG	AGA	TCT	TCT	CCT	CCC	AGC	GCA	TCC	TCC
P	T	H	A	S	P	S	W	P	R	S	S	P	P	S	A	S	S
R	R	T	P	H	Q	V	G	R	D	L	L	L	P	A	H	P	P
D	A	R	L	T	K	L	A	E	I	F	S	S	Q	R	I	L	P

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R G D V E D V D G A D H A A G G L P
A V T S K T S M A P M T R P A E S P
P S R R S R R C R R C R A R R R R P
-----
GCC GCT GGC AGC TGA AGC AGC TGT AGC GGC CGT AGC ACG CGC CGC GGA GGC TCC
      1791          1800          1809          1818          1827          1836
CGG CGA CCG TCG ACT TCG TCG ACA TCG CCG GCA TCG TGC GCG GCG CCT CCG AGG
-----
R R P S T S S T S P A S C A A P P R
G D R R L R R H R R H R A R R L R G
A T V D F V D I A G I V R G A S E G

L A Q A V L E E R V D T L G V R D A
S P R P L L N R A F M R S D S A I Q
P P G P C C T G R S C G H T R R S R
-----
CCC TCC CGG ACC CGT TGT TCA AGG AGC GCT TGT AGG CAC TCA GGC TGC GCT AGA
      1845          1854          1863          1872          1881          1890
GGG AGG GCC TGG GCA ACA AGT TCC TCG CGA ACA TCC GTG AGT CCG ACG CGA TCT
-----
G R A W A T S S S R T S V S P T R S
G G P G Q Q V P R E H P * V R R D L
E G L G N K F L A N I R E S D A I C

L D D A G E L V L V D D M D V A L D
W T M R A K L S S F T T W T S P L T
G P * G R R * P R S R R G H R R C P
-----
CGG TCC AGT AGG CGC GGA AGT TCC TGC TCT TGC AGC AGG TAC AGC TGC CGT TCC
      1899          1908          1917          1926          1935          1944
GCC AGG TCA TCC GCG CCT TCA AGG ACG AGA ACG TCG TCC ATG TCG ACG GCA AGG
-----
A R S S A P S R T R T S S M S T A R
P G H P R L Q G R E R R P C R R Q G
Q V I R A F K D E N V V H V D G K V

R G L V V D L R D V G L Q D E R V E
E G L S S M S V I L V S S I R A S R
R A W P R C R S S * C R A S G R P G
-----
AGA GCG GGT TCC TGC TGT AGC TCT GCT AGT TGT GGC TCG ACT AGG AGC GCC TGG
      1953          1962          1971          1980          1989          1998
TCT CGC CCA AGG ACG ACA TCG AGA CGA TCA ACA CCG AGC TGA TCC TCG CGG ACC
-----
S R P R T T S R R S T P S * S S R T
L A Q G R H R D D Q H R A D P R G P
S P K D D I E T I N T E L I L A D L

L R D L L D Q G A E L L V R P D L L
W V I S F T R G R R W F S E R I L F
G S S R S P G A G G G S P S A S * S
-----
AGG TCT GCT AGC TCT TCC AGG ACG GGG CGG AGG TCT TCC TGA GCG CCT AGT TCT
      2007          2016          2025          2034          2043          2052
TCC AGA CGA TCG AGA AGG TCC TGC CCC GCC TCC AGA AGG ACT CGC GGA TCA AGA
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S R R S R R S C P A S R R T R G S R
P D D R E G P A P P P E G L A D Q E
Q T I E K V L P R L Q K D S R I K K

V E R R L H L G D L L G L L D Q L P
S R A G F T F A T S S A L S I R S L
P G R A S P S P R R P P W P S G P S

TCC TGG AGC GCG GCT TCC ACT TCC GGC AGC TCC TCC GGT TCC TCT AGG ACC TCT
2061 2070 2079 2088 2097 2106
AGG ACC TCG CGC CGA AGG TGA AGG CCG TCG AGG AGG CCA AGG AGA TCC TGG AGA

R T S R R R * R P S R R P R R S W R
G P R A E G E G R R G G Q G D P G E
D L A P K V K A V E E A K E I L E R

A V G E E G V A D D L A G L A V L E
P S V R K A W P M T W P V S R L S S
P R C G R R G R C R G P C R A C R A

CCC CGC TGT GGG AGA AGC GGG TGC CGT AGC AGG TCC CGT GGC TCG CGT TGC TCG
2115 2124 2133 2142 2151 2160
GGG GCG ACA CCC TCT TCG CCC ACG GCA TCG TCC AGG GCA CCG AGC GCA ACG AGC

G A T P S S P T A S S R A P S A T S
G R H P L R P R H R P G H R A Q R A
G D T L F A H G I V Q G T E R N E L

Q V V Q V Q E G G L G E E V D E V D
R C S R C R S V V L G K R * T K L T
G A R G A G A * W W A R G R R R * R

AGG ACG TGC TGG ACG TGG ACG AGT GGT GGT TCG GGA AGG AGA TGC AGA AGT TGC
2169 2178 2187 2196 2205 2214
TCC TGC ACG ACC TGC ACC TGC TCA CCA CCA AGC CCT TCC TCT ACG TCT TCA ACG

S C T T C T C S P P S P S S T S S T
P A R P A P A H H Q A L P L R L Q R
L H D L H L L T T K P F L Y V F N V

V L V L Q D V L V E L V L L A G Q D
S S S S S I S S S K L F S C R A R T
R R P R A S R R P S * S R A A R G P

AGC TGC TCC TGC TCG ACT AGC TGC TCC TGA AGT TCT TGC TCG TCG CGC GGC ACC
2223 2232 2241 2250 2259 2268
TCG ACG AGG ACG AGC TGA TCG ACG AGG ACT TCA AGA ACG AGC AGC GCG CCC TGG

S T R T S * S T R T S R T S S A P W
R R G R A D R R G L Q E R A A R P G
D E D E L I D E D F K N E Q R A L V

G G G L G D E E V G L Q L G V E G L
A G A S A M K R L A L S S A S R A S
R G R R P W R G * R W A P P R G R R

AGC GGG GGC GGC TCC GGT AGA AGG AGT TGC GGT TCG ACC TCC GGC TGG AGC GGC

		2277			2286			2295			2304			2313			2322
TCG	CCC	CCG	CCG	AGG	CCA	TCT	TCC	TCA	ACG	CCA	AGC	TGG	AGG	CCG	ACC	TCG	CCG
S	P	P	P	R	P	S	S	S	T	P	S	W	R	P	T	S	P
R	P	R	R	G	H	L	P	Q	R	Q	A	G	G	R	P	R	R
A	P	A	E	A	I	F	L	N	A	K	L	E	A	D	L	A	E
E	V	V	V	L	G	E	F	E	E	L	G	D	A	L	V	L	G
S	S	S	S	S	A	R	S	S	R	W	D	T	P	W	S	S	G
A	R	R	R	R	P	G	R	V	G	G	T	R	R	G	P	R	A
TCG	AGC	TGC	TGC	TGC	TCC	GGG	AGC	TTG	AGG	AGG	TCA	GGC	AGC	CGG	TCC	TGC	TCG
	2331				2340			2349			2358			2367			2376
AGC	TCG	ACG	ACG	ACG	AGG	CCC	TCG	AAC	TCC	TCC	AGT	CCG	TCG	GCC	AGG	ACG	AGC
S	S	T	T	T	R	P	S	N	S	S	S	P	S	A	R	T	S
A	R	R	R	R	G	P	R	T	P	P	V	R	R	P	G	R	A
L	D	D	D	E	A	L	E	L	L	Q	S	V	G	Q	D	E	P
A	E	G	G	E	G	A	D	A	E	V	G	E	A	Q	L	G	V
P	R	A	V	R	A	R	T	P	K	L	V	R	P	R	C	V	*
R	G	R	W	G	R	G	R	R	S	*	C	G	R	G	A	S	R
GGC	CGG	AGC	GGT	GGG	AGC	GGG	CGC	AGC	CGA	AGT	TGT	GGG	AGC	CGG	ACG	TCT	GGA
	2385				2394			2403			2412			2421			2430
CCG	GCC	TCG	CCA	CCC	TCG	CCC	GCG	TCG	GCT	TCA	ACA	CCC	TCG	GCC	TGC	AGA	CCT
P	A	S	P	P	S	P	A	S	A	S	T	P	S	A	C	R	P
R	P	R	H	P	R	P	R	R	L	Q	H	P	R	P	A	D	L
G	L	A	T	L	A	R	V	G	F	N	T	L	G	L	Q	T	Y
Q	R	G	A	R	L	F	G	A	G	P	G	D	L	L	A	G	G
R	V	A	P	G	F	S	D	R	A	Q	V	M	L	F	P	A	V
G	S	P	R	G	S	P	I	G	R	R	S	W	*	S	P	R	W
TGG	ACT	GCC	GGC	CGG	GCT	TCC	TTA	GGG	CGC	GGA	CCT	GGT	AGT	TCT	TCC	CGC	GGT
	2439				2448			2457			2466			2475			2484
ACC	TGA	CGG	CCG	GCC	CGA	AGG	AAT	CCC	GCG	CCT	GGA	CCA	TCA	AGA	AGG	GCG	CCA
T	*	R	P	A	R	R	N	P	A	P	G	P	S	R	R	A	P
P	D	G	R	P	E	G	I	P	R	L	D	H	Q	E	G	R	H
L	T	A	G	P	K	E	S	R	A	W	T	I	K	K	G	A	T
G	G	L	G	G	A	D	D	V	G	V	E	L	L	A	E	D	L
A	G	S	A	A	P	T	M	W	V	S	K	W	F	P	K	M	L
R	G	R	P	R	R	R	*	G	C	R	S	G	S	P	S	*	*
GGC	GGG	GGC	TCC	GGC	GGC	CGC	AGT	AGG	TGT	GGC	TGA	AGG	TCT	TCC	CGA	AGT	AGT
	2493				2502			2511			2520			2529			2538
CCG	CCC	CCG	AGG	CCG	CCG	GCG	TCA	TCC	ACA	CCG	ACT	TCC	AGA	AGG	GCT	TCA	TCA
P	P	P	R	P	P	A	S	S	T	P	T	S	R	R	A	S	S
R	P	R	G	R	R	R	H	P	H	R	L	P	E	G	L	H	Q
A	P	E	A	A	G	V	I	H	T	D	F	Q	K	G	F	I	K
R	L	D	D	G	E	G	V	Q	H	L	G	A	G	D	G	L	G
A	S	T	M	E	K	V	S	R	T	S	V	P	E	T	A	S	A

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P   P   P   *   R   R   *   R   G   P   P   S   R   S   R   R   R   P
---
TCC GCC TCC AGT AGA GGA AGT GGC TGG ACC ACC TCT GGC CGA GGC AGC GGC TCC
      2547          2556          2565          2574          2583          2592
AGG CGG AGG TCA TCT CCT TCA CCG ACC TGG TGG AGA CCG GCT CCG TCG CCG AGG
---
R   R   R   S   S   P   S   P   T   W   W   R   P   A   P   S   P   R
G   G   G   H   L   L   H   R   P   G   G   D   R   L   R   R   R   G
A   E   V   I   S   F   T   D   L   V   E   T   G   S   V   A   E   A

A   R   L   P   L   R   T   H   L   A   L   V   I   H   H   L   V   P
R   A   F   P   F   A   R   I   S   P   L   S   *   T   I   C   S   P
G   R   S   P   S   P   A   Y   P   P   C   P   S   H   S   A   P   R
---
GGG CGC GCT TCC CCT TCC GCG CAT ACC TCC CGT TCC TGA TAC ACT ACG TCC TGC
      2601          2610          2619          2628          2637          2646
CCC GCG CGA AGG GGA AGG CGC GTA TGG AGG GCA AGG ACT ATG TGA TGC AGG ACG
---
P   A   R   R   G   R   R   V   W   R   A   R   T   M   *   C   R   T
P   R   E   G   E   G   A   Y   G   G   Q   G   L   C   D   A   G   R
R   A   K   G   K   A   R   M   E   G   K   D   Y   V   M   Q   D   G

V   H   D   L   E   A   E   V   H   L   R   L   E   V   V   V   S   S
S   T   T   S   N   R   K   L   T   Y   A   C   N   W   W   S   A   A
P   R   P   R   T   G   S   *   R   T   P   A   I   G   G   R   R   Q
---
CCC TGC ACC AGC TCA AGG CGA AGT TGC ACA TCC GCG TTA AGG TGG TGC TGC GAC
      2655          2664          2673          2682          2691          2700
GGG ACG TGG TCG AGT TCC GCT TCA ACG TGT AGG CGC AAT TCC ACC ACG ACG CTG
---
G   T   W   S   S   S   A   S   T   C   R   R   N   S   T   T   T   L
G   R   G   R   V   P   L   Q   R   V   G   A   I   P   P   R   R   C
D   V   V   E   F   R   F   N   V   *   A   Q   F   H   H   D   A   A

E   F   A   C   T   L   L   P   R   S   R   W   P   A   A   G   Q   Q
K   L   R   A   P   *   F   P   D   V   G   G   P   P   P   G   K   S
K   *   V   R   L   D   S   P   T   S   E   E   L   P   R   G   R   A
---
GAA AGT TTG CGC GTC CAG TCT TCC CCA GCT GAG GAG GTC CCC CGC CGG GGA ACG
      2709          2718          2727          2736          2745          2754
CTT TCA AAC GCG CAG GTC AGA AGG GGT CGA CTC CTC CAG GGG GCG GCC CCT TGC
---
L   S   N   A   Q   V   R   R   G   R   L   L   Q   G   A   A   P   C
F   Q   T   R   R   S   E   G   V   D   S   S   R   G   R   P   L   A
F   K   R   A   G   Q   K   G   S   T   P   P   G   G   G   P   L   L

K   G   H   Q   S   P   A   P   F   A   S   *   G   D   T   K   A   R
N   G   T   S   P   H   H   Q   S   L   Q   D   D   M   L   R   Q   G
T   E   R   A   P   I   T   S   P   F   S   I   M   W   *   D   K   G
---
ACA AAG GGC ACG ACC CTA CCA CGA CCC TTT CGA CTA GTA GGT AGT CAG AAA CGG
      2763          2772          2781          2790          2799          2808
TGT TTC CCG TGC TGG GAT GGT GCT GGG AAA GCT GAT CAT CCA TCA GTC TTT GCC
---
C   F   P   C   W   D   G   A   G   K   A   D   H   P   S   V   F   A
V   S   R   A   G   M   V   L   G   K   L   I   I   H   Q   S   L   P
F   P   V   L   G   W   C   W   E   S   *   S   S   I   S   L   C   P

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G S S T L L P V N N P V V Q P F P D
 A P P H * S H Y T I L Y W K L S P T
 Q R L I D L T T R * * T G S S P L P

 GAC GGC CTC CTA CAG TTC TCA CCA TGC AAT AAT CCA TGG TGA ACT CCC TTC CCC
 2817 2826 2835 2844 2853 2862
 CTG CCG GAG GAT GTC AAG AGT GGT ACG TTA TTA GGT ACC ACT TGA GGG AAG GGG

 L P E D V K S G T L L G T T * G K G
 C R R M S R V V R Y * V P L E G R G
 A G G C Q E W Y V I R Y H L R E G V

 F * T S L G R A F G C P E R E A S *
 S D H R Y V A L S A A L S E K R Q D
 R I M D I F R S R L R L A R K G S I

 AGC TTA GTA CAG CTA TTT GGC GCT CGC TTC GGC GTT CCG AGA GAA AGG CGA CTA
 2871 2880 2889 2898 2907 2916
 TCG AAT CAT GTC GAT AAA CCG CGA GCG AAG CCG CAA GGC TCT CTT TCC GCT GAT

 S N H V D K P R A K P Q G S L S A D
 R I (M) S I N R E R S R K A L F P L I X2
 E S C R * T A S E A A R L S F R * S

 S P * R C D R P W R S R R W A R C R
 L L D V V I V L G D L D D G L V A V
 L F T L S L * S A M S I T E L C P L

 GTT CTT CCA GTT GCT GTT AGT GCT CCG GTA GCT CTA GCA GAG GTT CGT GCC GTT
 2925 2934 2943 2952 2961 2970
 CAA GAA GGT CAA CGA CAA TCA CGA GGC CAT CGA GAT CGT CTC CAA GCA CGG CAA

 Q E G Q R Q S R G H R D R L Q A R Q
 K K V N D N H E A I E I V S K H G N
 R R S T T I T R P S R S S P S T A T

 R V R R P R P N H L A A R P S T G A
 G Y E D R G L I I C R Q A L A R V Q
 A T S T E A S S * A A S R S P E Y R

 GCG GCA TGA GCA GAG CCG GCT CCT AAT ACG TCG CGA CGC GCT CCC GAG CAT GGA
 2979 2988 2997 3006 3015 3024
 CGC CGT ACT CGT CTC GGC CGA GGA TTA TGC AGC GCT GCG CGA GGG CTC GTA CCT

 R R T R L G R G L C S A A R G L V P
 A V L V S A E D Y A A L R E G S Y L
 P Y S S R P R I M Q R C A R A R T C

 A S E P S R G D V A * P T R S R G Q
 Q A R R R V G T S Q E L R V L V G K
 S R E G A F A R R S S L A Y S F A R

 CGA CGC GAG AGG CCG CTT GCG GGC AGC TGA CGA GTT CCG CAT GCT CTT GCG GGA
 3033 3042 3051 3060 3069 3078
 GCT GCG CTC TCC GGC GAA CGC CCG TCG ACT GCT CAA GGC GTA CGA GAA CGC CCT

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A A L S G E R P S T A Q G V R E R P
L R S P A N A R R L L K A Y E N A L
C A L R R T P V D C S R R T R T P L

G R * H T P A P A S R D P N P P R Q
G V D I H R L P L Q D I R I R R V S
A W T L T D S R S S I S G S E A S A

ACG GGT GCA GTT ACA CAG CCT CGC CCT CGA CTA GCT AGG CCT AAG CCG CCT GCG
3087 3096 3105 3114 3123 3132
TGC CCA CGT CAA TGT GTC GGA GCG GGA GCT GAT CGA TCC GGA TTC GGC GGA CGC

C P R Q C V G A G A D R S G F G G R
A H V N V S E R E L I D P D S A D A
P T S M C R S G S * S I R I R R T L

N P H R T L S T K S S * P Q S S * V
T R T G R S A Q R R P D P S P H S C
P E P A A H P K D E L I L A P I V V

ACC AAG CCC ACG GCG CAC TCC GAA CAG AAG CTC CTA GTC CCG ACC CTA CTG ATG
3141 3150 3159 3168 3177 3186
TGG TTC GGG TGC CGC GTG AGG CTT GTC TTC GAG GAT CAG GGC TGG GAT GAC TAC

W F G C R (V) R L V F E D Q G W D D Y X3
G S G A A * G L S S R I R A G M T T
V R V P R E A C L R G S G L G * L H

D Q S L F S R L I S A R M L L S M S
T R A * S R G C S A R G C * C A * R
R G P E L V V A L H E G A D V L E D

TGC AGG ACC GAG TTC TTG CTG GCG TTC TAC GAG CGG GCG TAG TTG TTC GAG TAG
3195 3204 3213 3222 3231 3240
ACG TCC TGG CTC AAG AAC GAC CGC AAG ATG CTC GCC CGC ATC AAC AAG CTC ATC

T S W L K N D R K M L A R I N K L I
R P G S R T T A R C S P A S T S S S
V L A Q E R P Q D A R P H Q Q A H R

S T L R S G K V P I P L G S G S F Y
P R * A R G R * P S R C V R A A S T
L V D P A V G E R P D A F G L R Q L

CTC CTG CAG TCC GCG CTG GGG AAG TGC CCC TAG CCG TTT GGG CTC GGC GAC TTC
3249 3258 3267 3276 3285 3294
GAG GAC GTC AGG CGC GAC CCC TTC ACG GGG ATC GGC AAA CCC GAG CCG CTG AAG

E D V R R D P F T G I G K P E P L K
R T S G A T P S R G S A N P S R * S
G R Q A R P L H G D R Q T R A A E V

W K G P A H D R R I S S S C R R T Y
G S A P P T T A A S R R R V G G R T
V V Q R P R P R P P D V V F V A E H

ATG GTG AAC GGC CCC CGC ACC AGC GCC GCC TAG CTG CTG CTT GTG GCG GAG CAC

		3303			3312			3321			3330			3339			3348	
TAC	CAC	TTG	CCG	GGG	GCG	TGG	TCG	CGG	CGG	ATC	GAC	GAC	GAA	CAC	CGC	CTC	GTG	
Y	H	L	P	G	A	W	S	R	R	I	D	D	E	H	R	L	V	
T	T	C	R	G	R	G	R	G	G	S	T	T	N	T	A	S	C	
P	L	A	G	G	V	V	A	A	D	R	R	R	T	P	P	R	V	
R	T	V	S	L	S	I	T	I	R	A	A	R	Y	W	*	Q	S	
G	P	*	P	C	P	S	R	S	G	R	Q	G	T	G	S	S	V	
V	Q	N	R	V	L	L	D	H	D	E	S	G	P	V	V	V	S	
ATG	GAC	CAA	TGC	CTG	TTC	CTC	TAG	CAC	TAG	GAG	CGA	CGG	GCC	ATG	GTG	ATG	ACT	
		3357			3366			3375			3384			3393			3402	
TAC	CTG	GTT	ACG	GAC	AAG	GAG	ATC	GTG	ATC	CTC	GCT	GCC	CGG	TAC	CAC	TAC	TGA	
Y	L	V	T	D	K	E	I	V	I	L	A	A	R	Y	H	Y	*	
T	W	L	R	T	R	R	S	*	S	S	L	P	G	T	T	T	D	
P	G	Y	G	Q	G	D	R	D	P	R	C	P	V	P	L	L	T	
G	L	H	D	E	R	A	P	I	T	S	P	H	A	G	R	V	R	
A	W	T	T	R	G	H	Q	S	P	A	P	I	P	G	E	F	G	
Q	G	P	P	G	G	T	S	P	H	H	Q	S	P	G	R	S	G	
GAC	GGG	TCC	ACC	AGG	AGG	GCA	CGA	CCC	TAC	CAC	GAC	CCT	ACC	CGG	GGA	GCT	TGG	
		3411			3420			3429			3438			3447			3456	
CTG	CCC	AGG	TGG	TCC	TCC	CGT	GCT	GGG	ATG	GTG	CTG	GGA	TGG	GCC	CCT	CGA	ACC	
L	P	R	W	S	S	R	A	G	M	V	L	G	W	A	P	R	T	
C	P	G	G	P	P	V	L	G	W	C	W	D	G	P	L	E	P	
A	Q	V	V	L	P	C	W	D	G	A	G	M	G	P	S	N	P	
H	K	R	L	H	S	S	Q	L	*	H	E	A	E	V	N	L	R	
I	N	G	C	T	P	A	R	Y	N	I	N	R	K	L	T	*	A	
S	T	E	A	P	P	L	E	T	T	L	T	G	S	*	R	K	P	
GCT	ACA	AAG	GCG	TCC	ACC	CTC	GAG	ACA	TCA	ATT	ACA	AGG	CGA	AGT	TGC	AAA	TCC	
		3465			3474			3483			3492			3501			3510	
CGA	TGT	TTC	CGC	AGG	TGG	GAG	CTC	TGT	AGT	TAA	TGT	TCC	GCT	TCA	ACG	TTT	AGG	
R	C	F	R	R	W	E	L	C	S	*	C	S	A	S	T	F	R	
D	V	S	A	G	G	S	S	V	V	N	V	P	L	Q	R	L	G	
M	F	P	Q	V	G	A	L	*	L	M	F	R	F	N	V	*	A	
L	D	V	V	D	D	Q	Q	I	R	L	D	S	P	D	S	E	D	
C	I	W	W	T	T	K	N	F	A	C	T	L	P	T	R	S	M	
A	S	G	G	R	R	R	T	S	H	A	P	*	L	P	G	V	*	
GCG	TCT	AGG	TGG	TGC	AGC	AGA	ACA	ACT	TAC	GCG	TCC	AGT	CTC	CCC	AGG	CTG	AGT	
		3519			3528			3537			3546			3555			3564	
CGC	AGA	TCC	ACC	ACG	TCG	TCT	TGT	TGA	ATG	CGC	AGG	TCA	GAG	GGG	TCC	GAC	TCA	
R	R	S	T	T	S	S	C	*	M	R	R	S	E	G	S	D	S	
A	D	P	P	R	R	L	V	E	C	A	G	Q	R	G	P	T	H	
Q	I	H	H	V	V	L	L	N	A	Q	V	R	G	V	R	L	I	
S	D	P	G	Q	S	K	G	T	G	G	A	S	Q	S	N	S	L	
P	T	P	G	R	A	R	E	R	A	E	P	L	S	P	T	A	*	

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R   L   R   A   G   P   E   K   G   H   R   R   C   V   P   L   Q   E
---
AGC CTC AGC CCG GGG ACC GAG AAA GGG CAC GGA GGC CGT CTG ACC CTC AAC GAG
      3573              3582              3591              3600              3609              3618
TCG GAG TCG GGC CCC TGG CTC TTT CCC GTG CCT CCG GCA GAC TGG GAG TTG CTC
---
S   E   S   G   P   W   L   F   P   V   P   P   A   D   W   E   L   L
R   S   R   A   P   G   S   F   P   C   L   R   Q   T   G   S   C   S
G   V   G   P   L   A   L   S   R   A   S   G   R   L   G   V   A   Q

*   *   R   G   I   P   C   Y   P   G   T   W   L   A   L   A   S   W
D   D   G   A   S   R   A   T   P   G   Q   G   S   R   W   R   P   G
T   M   V   Q   R   D   P   L   L   A   R   D   L   A   G   A   R   V
---
TCA GTA GTG GAC GGC TAG CCC GTC ATC CCG GGA CAG GTC TCG CGG TCG CGC CTG
      3627              3636              3645              3654              3663              3672
AGT CAT CAC CTG CCG ATC GGG CAG TAG GGC CCT GTC CAG AGC GCC AGC GCG GAC
---
S   H   H   L   P   I   G   Q   *   G   P   V   Q   S   A   S   A   D
V   I   T   C   R   S   G   S   R   A   L   S   R   A   P   A   R   T
S   S   P   A   D   R   A   V   G   P   C   P   E   R   Q   R   G   P

N   S   P   I   M   Q   R   D   T   G   T   L   I   E   A   D   A   H
T   P   L   S   *   R   A   T   R   V   P   S   S   R   P   T   P   T
L   Q   F   P   D   D   P   P   G   Y   R   H   P   D   R   R   R   R
---
GTC AAC CTT CCC TAG TAG ACC GCC AGG CAT GGC CAC TCC TAG AGC CGC AGC CGC
      3681              3690              3699              3708              3717              3726
CAG TTG GAA GGG ATC ATC TGG CGG TCC GTA CCG GTG AGG ATC TCG GCG TCG GCG
---
Q   L   E   G   I   I   W   R   S   V   P   V   R   I   S   A   S   A
S   W   K   G   S   S   G   G   P   Y   R   *   G   S   R   R   R   R
V   G   R   D   H   L   A   V   R   T   G   E   D   L   G   V   G   V

T   G   F   R   A   L   T   F   C   H   A   G   G   S   F   C   F   E
P   A   S   A   P   W   P   S   A   T   P   A   A   P   S   A   S   S
P   H   R   L   P   G   P   H   L   L   P   R   R   R   L   L   L   V
---
ACC CAC GGC TTC GCC CGG TCC CAC TTC GTC ACC CGC GGC GGC CTC TTC GTC TTG
      3735              3744              3753              3762              3771              3780
TGG GTG CCG AAG CGG GCC AGG GTG AAG CAG TGG GCG CCG CCG GAG AAG CAG AAC
---
W   V   P   K   R   A   R   V   K   Q   W   A   P   P   E   K   Q   N
G   C   R   S   G   P   G   *   S   S   G   R   R   R   R   S   R   T
G   A   E   A   G   Q   G   E   A   V   G   A   A   G   E   A   E   L

S   A   P   P   L   D   G   I   R   E   R   F   T   A   R   R   G   V
A   P   R   P   C   T   A   S   A   N   A   S   R   P   A   D   A   *
R   Q   G   P   A   P   R   R   H   T   R   P   V   H   R   T   P   R
---
AGC GAC CGG CCC CCG TCC AGC GGC TAC GCA AGC GCC TTG CAC CGC GCA GCC GGA
      3789              3798              3807              3816              3825              3834
TCG CTG GCC GGG GGC AGG TCG CCG ATG CGT TCG CGG AAC GTG GCG CGT CGG CCT
---
S   L   A   G   G   R   S   P   M   R   S   R   N   V   A   R   R   P
R   W   P   G   A   G   R   R   C   V   R   G   T   W   R   V   G   L
A   G   R   G   Q   V   A   D   A   F   A   E   R   G   A   S   A   Y

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      G   I   L   W   A   A   T   L   R   S   R   W   E   Y   G   L   L   A
      A   S   *   G   P   P   P   S   A   H   A   G   S   T   A   S   S   P
      R   R   D   A   L   R   R   H   P   T   L   A   V   R   L   R   P   P
-----
TGC GGC TAG TCG GTC CGC CGC CAC TCC GCA CTC GCG GTG AGC ATC GGC TCC TCC
      3843          3852          3861          3870          3879          3888
ACG CCG ATC AGC CAG GCG GCG GTG AGG CGT GAG CGC CAC TCG TAG CCG AGG AGG
-----
      T   P   I   S   Q   A   A   V   R   R   E   R   H   S   *   P   R   R
      R   R   S   A   R   R   R   *   G   V   S   A   T   R   S   R   G   G
      A   D   Q   P   G   G   G   E   A   *   A   P   L   V   A   E   E   G
-----
      E   W   E   A   H   T   I   T   A   A   D   D   I   L   H   R   T   F
      R   G   S   P   M   P   S   R   P   Q   T   T   S   S   T   V   P   S
      G   G   V   R   C   P   H   D   H   S   R   R   R   H   P   S   P   H
-----
CGG AGG GTG AGC CGT ACC CAC TAG CAC CGA CGC AGC AGC TAC TCC ACT GCC CAC
      3897          3906          3915          3924          3933          3942
GCC TCC CAC TCG GCA TGG GTG ATC GTG GCT GCG TCG TCG ATG AGG TGA CGG GTG
-----
      A   S   H   S   A   W   V   I   V   A   A   S   S   M   R   *   R   V
      P   P   T   R   H   G   *   S   W   L   R   R   R   *   G   D   G   *
      L   P   L   G   M   G   D   R   G   C   V   V   D   E   V   T   G   E
-----
      R   E   A   H   P   W   G   P   R   L   V   R   G   S   K   L   D   R
      A   N   P   T   P   G   G   P   G   C   S   A   V   A   K   *   T   A
      L   T   R   R   P   A   V   R   A   A   P   R   S   R   K   E   P   R
-----
TTC GCA AGC CGC ACC CCG GTG GGC CCG GCG TCC TGC GCT GGC GAA AAG TCC AGC
      3951          3960          3969          3978          3987          3996
AAG CGT TCG GCG TGG GGC CAC CCG GGC CGC AGG ACG CGA CCG CTT TTC AGG TCG
-----
      K   R   S   A   W   G   H   P   G   R   R   T   R   P   L   F   R   S
      S   V   R   R   G   A   T   R   A   A   G   R   D   R   F   S   G   R
      A   F   G   V   G   P   P   G   P   Q   D   A   T   A   F   Q   V   A
-----
      C   R   P   R   D   S   D   K   S   T   V   Y   R   E   I   V   Y   G
      A   A   R   A   T   R   T   R   A   R   *   T   A   S   S   *   T   A
      P   L   A   P   P   G   L   G   Q   E   D   R   L   A   R   D   R   L
-----
GCC GTC GCG CCC GCC AGG CTC AGG AAC GAG CAG TGC ATC GCG AGC TAG TGC ATC
      4005          4014          4023          4032          4041          4050
CGG CAG CGC GGG CGG TCC GAG TCC TTG CTC GTC ACG TAG CGC TCG ATC ACG TAG
-----
      R   Q   R   G   R   S   E   S   L   L   V   T   *   R   S   I   T   *
      G   S   A   G   G   P   S   P   C   S   S   R   S   A   R   S   R   S
      A   A   R   A   V   R   V   L   A   R   H   V   A   L   D   H   V   A
-----
      Y   G   S   E   E   S   H   Q   F   P   M   P   W   R   E   P   Y   L
      T   A   A   R   R   P   T   S   S   R   C   R   G   G   R   R   T   C
      R   L   R   E   G   R   L   A   P   V   A   D   A   V   E   G   P   V
-----
GGC ATC GGC GAG AGG AGC CTC ACG ACC TTG CCG TAG CCG GTG GAG AGG CCC ATG
      4059          4068          4077          4086          4095          4104
CCG TAG CCG CTC TCC TCG GAG TGC TGG AAC GGC ATC GGC CAC CTC TCC GGG TAC
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P * P L S S E C W N G I G H L S G Y
R S R S P R S A G T A S A T S P G T
V A A L L G V L E R H R P P L R V Q

D T R D I W T P A V F I S G G V P A
I P V T S G P P P S S S A A A S P P
S R Y P R D L H P R R L H Q R R R P

TCT AGC CAT GCC AGC TAG GTC CAC CCC CGC TGC TTC TAC GAC GGC GGC TGC CCC
4113 4122 4131 4140 4149 4158
AGA TCG GTA CGG TCG ATC CAG GTG GGG GCG ACG AAG ATG CTG CCG CCG ACG GGG

R S V R S I Q V G A T K M L P P T G
D R Y G R S R W G R R R C C R R R G
I G T V D P G G G D E D A A A D G G

E S A E L L S W T H S E E V L H E W
K P P K W C P G P T P S K S W T N G
S R L S G A P V L H P V R R G P T G

CGA AGC CTC CGA AGG TCG TCC CTG GTC CAC ACC CTG AGA AGC TGG TCC ACA AGG
4167 4176 4185 4194 4203 4212
GCT TCG GAG GCT TCC AGC AGG GAC CAG GTG TGG GAC TCT TCG ACC AGG TGT TCC

A S E A S S R D Q V W D S S T R C S
L R R L P A G T R C G T L R P G V P
F G G F Q Q G P G V G L F D Q V F P

P A S W D L E W D L G T G S I G Y T
P R A G T S N G T W A P A P S A T R
L A R E L R T G L G P R H R L H R V

GTC CCG CGC GAG GTC AGC TCA AGG GTC AGG TCC GGC CAC GGC CTC TAC GGC ATG
4221 4230 4239 4248 4257 4266
CAG GGC GCG CTC CAG TCG AGT TCC CAG TCC AGG CCG GTG CCG GAG ATG CCG TAC

Q G A L Q S S S Q S R P V P E M P Y
R A R S S R V P S P G R C R R C R T
G R A P V E F P V Q A G A G D A V R

R D A D V R W F R S H L I (V) Q A H D
A T P T W G G S G P T S S * K P T T X4
H P R R G G A L V P L P P D S P R P

CAC GCC AGC CGC AGG TGG GCG GTC TTG GCC CTC ACC TCC TAG TGA ACC CGC ACC
4275 4284 4293 4302 4311 4320
GTG CGG TCG GCG TCC ACC CGC CAG AAC CGG GAG TGG AGG ATC ACT TGG GCG TGG

V R S A S T R Q N R E W R I T W A W
C G R R P P A R T G S G G S L G R G
A V G V H P P E P G V E D H L G V V

A L D N I I E T F H A P A S N P * P
P W T T S S R P S T P P R R T R D P
R G P R Q H D R H L P R A G L E T L

AGC CGG TCC AGC AAC TAC TAG AGC CAC TTC ACC CGC CCG CGG CTC AAG CCA GTC

4329. 4338 4347 4356 4365 4374
TCG GCC AGG TCG TTG ATG ATC TCG GTG AAG TGG GCG GGC GCC GAG TTC GGT CAG

S A R S L M I S V K W A G A E F G Q
R P G R * * S R * S G R A P S S V R
G Q V V D D L G E V G G R R V R S G

G A G M G Q R Q P R * R G A P R D P
G R A W E R V S P D D A D L L A I L
A G R G N G S A P T T L T W C P S *

CCG GGG CGC GGG TAA GGG ACT GCG ACC CCA GCA GTC GCA GGT CGT CCC GCT AGT
4383 4392 4401 4410 4419 4428
GGC CCC GCG CCC ATT CCC TGA CGC TGG GGT CGT CAG CGT CCA GCA GGG CGA TCA

G P A P I P * R W G R Q R P A G R S
A P R P F P D A G V V S V Q Q G D Q
P R A H S L T L G S S A S S R A I R

R P L L T P R S G R R L G R H R D A
A P C C R P D A V E E F V E I A T L
P P A A A H T Q * R K S S R S P P *

CCC GCC CCG TCG TCG CAC CCA GAC GAT GGA GAA GCT TCT GGA GCT ACC GCC AGT
4437 4446 4455 4464 4473 4482
GGG CGG GGC AGC AGC GTG GGT CTG CTA CCT CTT CGA AGA CCT CGA TGG CGG TCA

G R G S S V G L L P L R R P R W R S
G G A A A W V C Y L F E D L D G G Q
A G Q Q R G S A T S S K T S M A V S

P R L Q G P Y A A R R H D Y P N R *
R G F S G L T P L G G I I T L I A D
G A S A A W P L C G A S S R L S Q T

CGG CCG GCT TCG ACG GGT CCC ATC CGT CGG GCG GCT ACT AGC ATT CCT AAC GCA
4491 4500 4509 4518 4527 4536
GCC GGC CGA AGC TGC CCA GGG TAG GCA GCC CGC CGA TGA TCG TAA GGA TTG CGT

A G R S C P G * A A R R * S * G L R
P A E A A Q G R Q P A D D R K D C V
R P K L P R V G S P P M I V R I A S

S R H R G A A R P R R I L R R R R R
R G I D V L Q A R A A Y S A D D D G
V V S T S W S R A P P T H P T T T A

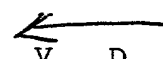
GTG CTG GCT ACA GCT GGT CGA CGC GCG CCC GCC GCA TAC TCC GCA GCA GCA GCG
4545 4554 4563 4572 4581 4590
CAC GAC CGA TGT CGA CCA GCT GCG CGC GGG CGG CGT ATG AGG CGT CGT CGT CGC

H D R C R P A A R G R R M R R R R R
T T D V D Q L R A G G V * G V V V A
R P M S T S C A R A A Y E A S S S P

R A A P R P D R H P P D H H A P H G
D L Q Q V L T E I H P T T T R R T A

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T	S	S	S	S	S	P	R	S	T	P	P	R	P	A	G	P	P
GCA	GCT	CGA	CGA	CCT	GCT	CCC	AGA	GCT	ACA	CCC	CCC	AGC	ACC	ACG	CGG	CCC	ACC
	4599				4608			4617		4626			4635			4644	
CGT	CGA	GCT	GCT	GGA	CGA	GGG	TCT	CGA	TGT	GGG	GGG	TCG	TGG	TGC	GCC	GGG	TGG
R	R	A	A	G	R	G	S	R	C	G	G	S	W	C	A	G	W
V	E	L	L	D	E	G	L	D	V	G	G	R	G	A	P	G	G
S	S	C	W	T	R	V	S	M	W	G	V	V	V	R	R	V	A
H	R	W	L	H	P	A	V	L	L	A	G	P	P	R	R	A	V
M	V	G	S	T	P	L	W	W	C	L	A	P	R	D	D	P	W
W	S	A	L	P	P	S	G	G	A	S	R	R	A	T	T	P	G
GGT	ACT	GCG	GTC	TCC	ACC	CCT	CGG	TGG	TCG	TCT	CGC	GGC	CCG	CCA	GCA	GCC	CGG
	4653				4662			4671		4680			4689			4698	
CCA	TGA	CGC	CAG	AGG	TGG	GGA	GCC	ACC	AGC	AGA	GCG	CCG	GGC	GGT	CGT	CGG	GCC
P	*	R	Q	R	W	G	A	T	S	R	A	P	G	G	R	R	A
H	D	A	R	G	G	E	P	P	A	E	R	R	A	V	V	G	P
M	T	P	E	V	G	S	H	Q	Q	S	A	G	R	S	S	G	H
P	R	P	G	R	S	G	P	R	R	L	P	R	T	D	P	R	R
P	A	R	D	E	A	A	R	D	E	F	P	A	R	T	L	D	V
R	P	A	T	R	P	Q	G	T	K	S	P	P	A	H	*	T	S
TGC	CCC	GCG	CCA	GGA	GCC	GAC	GGG	CCA	GAA	GCT	TCC	CCC	GCG	CAC	AGT	CCA	GCT
	4707				4716			4725		4734			4743			4752	
ACG	GGG	CGC	GGT	CCT	CGG	CTG	CCC	GGT	CTT	CGA	AGG	GGG	CGC	GTG	TCA	GGT	CGA
T	G	R	G	P	R	L	P	G	L	R	R	G	R	V	S	G	R
R	G	A	V	L	G	C	P	V	F	E	G	G	A	C	Q	V	D
G	A	R	S	S	A	A	R	S	S	K	G	A	R	V	R	S	T
P	A	L	R	P	R	A	A	R	G	R	G	A	P	P	R	V	A
P	R	W	A	P	D	L	P	E	D	E	A	P	P	R	V	Y	R
P	A	G	P	P	T	S	R	S	T	R	P	R	R	A	S	T	G
GCC	CCG	CGG	TCC	GCC	CCA	GCT	CGC	CGA	GCA	GGA	GCC	GGC	CGC	CCG	CCT	GCA	TGG
	4761				4770			4779		4788			4797			4806	
CGG	GGC	GCC	AGG	CGG	GGT	CGA	GCG	GCT	CGT	CCT	CGG	CCG	GCG	GGC	GGA	CGT	ACC
R	G	A	R	R	G	R	A	A	R	P	R	P	A	G	G	R	T
G	A	P	G	G	V	E	R	L	V	L	G	R	R	A	D	V	P
G	R	Q	A	G	S	S	G	S	S	S	A	G	G	R	T	Y	R
S	R	A	P	R	L	A	C	Q	D	R	A	V	D	R	C	G	G
R	G	H	Q	A	C	P	A	N	I	G	H	S	T	Ⓟ	A	A	G
G	V	T	S	P	A	P	R	M	S	G	T	R	R	*	P	L	G
CGG	CTG	GCA	CGA	CCC	GCG	TCC	CGC	GTA	ACT	AGG	GCA	CGC	TGC	AGT	GCC	GTC	GGG
	4815				4824			4833		4842			4851			4860	
GCC	GAC	CGT	GCT	GGG	CGC	AGG	GCG	CAT	TGA	TCC	CGT	GCG	ACG	TCA	CGG	CAG	CCC
A	D	R	A	G	R	R	A	H	*	S	R	A	T	S	R	Q	P
P	T	V	L	G	A	G	R	I	D	P	V	R	R	H	G	S	P
R	P	C	W	A	Q	G	A	L	I	P	C	D	V	T	A	A	P



X5

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P R G * P P A R L * K T L A L L P L
Q G A E L R P A C D N Q L H W S R F
R A P R L A P R A T M K Y T G P A S
---
GGA CCG GCC GGA GTT CCG CCC CGC GCG TCA GTA AAA CAT TCA CGG TCC TCG CCT
      4869      4878      4887      4896      4905      4914
CCT GGC CGG CCT CAA GGC GGG GCG CGC AGT CAT TTT GTA AGT GCC AGG AGC GGA
---
P G R P Q G G A R S H F V S A R S G
L A G L K A G R A V I L * V P G A E
W P A S R R G A Q S F C K C Q E R K
---
Y A G E F P L I V H L A S A P P E A
I P E K S H C S * T S L P R R R S P
S L S R R I A L D R P S R V G A A R
---
TCT ATC CGA GGA AGC TTA CCG TTC TAG TGC ACC TCT CGC CTG CGG CCG CCG AGC
      4923      4932      4941      4950      4959      4968
AGA TAG GCT CCT TCG AAT GGC AAG ATC ACG TGG AGA GCG GAC GCC GGC GGC TCG
---
R * A P S N G K I T W R A D A G G S
D R L L R (M) A R S R G E R T P A A R
I G S F E W Q D H V E S G R R R L G
---
S * R V C R E N G A T A P V A R C G
P D G * A V S T E L L P L C Q E A V
R I V E R L A R K W C H C A S S P L
---
CGC CTA GTG GAG TGC GTT GCG AGC AAA GGT CGT CAC CGT CCG TGA CGA GCC GTT
      4977      4986      4995      5004      5013      5022
GCG GAT CAC CTC ACG CAA CGC TCG TTT CCA GCA GTG GCA GGC ACT GCT CGG CAA
---
A D H L T Q R S F P A V A G T A R Q
R I T S R N A R F Q Q W Q A L L G N
G S P H A T L V S S S G R H C S A T
---
C C A C A R R H T G P S P L G G S R
A V L A R A G T L E Q H H S D A R D
R L L R V R A P S N R T I P T R G I
---
GGC GTT GTT CGC GTG CGC GCG GCC ACT CAA GGA CCA CTA CCC TCA GGC GGG CTA
      5031      5040      5049      5058      5067      5076
CCG CAA CAA GCG CAC GCG CGC CGG TGA GTT CCT GGT GAT GGG AGT CCG CCC GAT
---
P Q Q A H A R R * V P G D G S P P D
R N K R T R A G E F L V M G V R P I
A T S A R A P V S S W * W E S A R S
---
A R P P A R S A R V C A G R R R V A
R E R H L V A P G Y A R E E V V S L
E S A T S C P Q G T R V S R * S P C
---
GAG CGA GCG CCA CCT CGT GCC GAC CGG GCA TGC GTG CGA GGA GAT GCT GCC TGT
      5085      5094      5103      5112      5121      5130
CTC GCT CGC GGT GGA GCA CGG CTG GCC CGT ACG CAC GCT CCT CTA CGA CGG ACA

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L A R G G A R L A R T H A P L R R T
S L A V E H G W P V R T L L Y D G Q
R S R W S T A G P Y A R S S T T D S

P A T S T P A P A E E Y P A S P A S
P L Q R L P R P L K K T R H P R L L
R S S D F H A R S S R R V T R V S C

CGC CCT CGA CAG CTT CAC CCG CGC CCT CGA AGA AGC ATG CCA CGC CTG CCT CGT
5139 5148 5157 5166 5175 5184
GCG GGA GCT GTC GAA GTG GGC GCG GGA GCT TCT TCG TAC GGT GCG GAC GGA GCA

A G A V E V G A G A S S Y G A D G A
R E L S K W A R E L L R T V R T E Q
G S C R S G R G S F F V R C G R S R

R S P G P G A S P A P P S S R P G A
D R H G R V Q Q H L Q P L L V L G R
I A I A G S R S I S S P S F F S A G

CTA GCG CTA CCG GGG CCT GGA CGA CTA CCT CGA CCC CCT CTT CTT GCT CCG GGG
5193 5202 5211 5220 5229 5238
GAT CGC GAT GGC CCC GGA CCT GCT GAT GGA GCT GGG GGA GAA GAA CGA GGC CCC

D R D G P G P A D G A G G E E R G P
I A M A P D L L M E L G E K N E A P
S R W P R T C * W S W G R R T R P R

R P R R R R P S A R R R G R G S G P
G L D D G D H L H G G V V E V P D R
G S T T A T T S I G A S S R S R I G

CGG GCT CCA GCA GCG GCA GCA CCT CTA CGG GCG GCT GCT GGA GCT GGC CTA GGG
5247 5256 5265 5274 5283 5292
GCC CGA GGT CGT CGC CGT CGT GGA GAT GCC CGC CGA CGA CCT CGA CCG GAT CCC

A R G R R R R G D A R R R P R P D P
P E V V A V V E M P A D D L D R I P
P R S S P S W R C P P T T S T G S R

G P P S G P R V T R G A S W D P S C
D P L V E Q A Y Q E V P R G T R P V
T R S S K R P T S N S R G V L G P F

CCA GGC CCT CCT GAA GGA CCC GCA TGA CAA GCT GGC CGG CTG GTC AGG CCC CTT
5301 5310 5319 5328 5337 5346
GGT CCG GGA GGA CTT CCT GGG CGT ACT GTT CGA CCG GCC GAC CAG TCC GGG GAA

G P G G L P G R T V R P A D Q S G E
V R E D F L G V L F D R P T S P G N
S G R T S W A Y C S T G R P V R G T

R C C * E S P P H G P R A R A S R P
D A A D N A R R I G Q A R V P Q D H
M P L M M R E A S A R P A C P S I T

GTA GCC GTC GTA GTA AGC GAG CCG CCT ACG GGA CCC GCG CGT GCC CGA CTA GCA

5355			5364			5373			5382			5391			5400		
CAT	CGG	CAG	CAT	CAT	TCG	CTC	GGC	GGA	TGC	CCT	GGG	CGC	GCA	CGG	GCT	GAT	CGT
H	R	Q	H	H	S	L	G	G	C	P	G	R	A	R	A	D	R
I	G	S	I	I	R	S	A	D	A	L	G	A	H	G	L	I	V
S	A	A	S	F	A	R	R	M	P	W	A	R	T	G	*	S	W
P	A	R	R	R	R	R	R	G	S	I	P	G	T	S	C	R	S
R	P	V	G	G	V	D	V	V	R	F	R	D	P	R	A	G	A
A	P	C	A	A	S	T	*	S	G	F	D	T	R	D	L	V	P
CCG	CCC	CGT	GCG	GCG	GCT	GCA	GAT	GCT	GGG	CTT	TAG	CCA	GGC	CAG	CTC	GTG	GCC
5409		5418		5427		5436		5445		5454							
GGC	GGG	GCA	CGC	CGC	CGA	CGT	CTA	CGA	CCC	GAA	ATC	GGT	CCG	GTC	GAG	CAC	CGG
G	G	A	R	R	R	R	L	R	P	E	I	G	P	V	E	H	R
A	G	H	A	A	D	V	Y	D	P	K	S	V	R	S	S	T	G
R	G	T	P	P	T	S	T	T	R	N	R	S	G	R	A	P	A
A	T	R	G	A	R	R	G	P	A	T	V	P	R	P	S	P	S
R	Q	E	G	Q	G	G	D	P	H	R	*	R	A	L	H	H	V
E	S	N	E	R	G	A	T	R	T	G	D	G	P	S	T	I	S
GAG	CGA	CAA	GAG	GGA	CGG	GCG	GCA	GGC	CCA	CGG	CAG	TGG	CCC	GCT	CCA	CTA	CCT
5463		5472		5481		5490		5499		5508							
CTC	GCT	GTT	CTC	CCT	GCC	CGC	CGT	CCG	GGT	GCC	GTC	ACC	GGG	CGA	GGT	GAT	GGA
L	A	V	L	P	A	R	R	P	G	A	V	T	G	R	G	D	G
S	L	F	S	L	P	A	V	R	V	P	S	P	G	E	V	M	D
R	C	S	P	C	P	P	S	G	C	R	H	R	A	R	*	W	T
P	P	P	G	G	P	R	R	C	A	S	R	G	P	R	Y	P	R
P	H	L	G	A	P	G	G	A	R	R	D	D	Q	D	T	R	V
Q	T	S	A	R	R	A	A	P	V	G	I	T	R	T	P	V	S
GAC	CCA	CCT	CCG	GGC	GGC	CCG	GCG	GCC	GTG	CGG	CTA	GCA	GGA	CCA	GCC	ATG	CCT
5517		5526		5535		5544		5553		5562							
CTG	GGT	GGA	GGC	CCG	CCG	GGC	CGC	CGG	CAC	GCC	GAT	CGT	CCT	GGT	CGG	TAC	GGA
L	G	G	G	P	P	G	R	R	H	A	D	R	P	G	R	Y	G
W	V	E	A	R	R	A	A	G	T	P	I	V	L	V	G	T	D
G	W	R	P	A	G	P	P	A	R	R	S	S	W	S	V	R	T
A	R	R	S	R	H	T	R	S	R	S	*	G	A	S	G	A	A
L	V	A	V	A	I	H	E	V	E	V	E	G	L	R	G	Q	Q
S	C	P	S	Q	S	T	N	S	K	S	K	V	W	G	V	R	S
GCT	CGT	GCC	GCT	GAC	GCT	ACA	CAA	GCT	GAA	GCT	GAA	GTG	GGT	CGG	CTG	GGA	CGA
5571		5580		5589		5598		5607		5616							
CGA	GCA	CGG	CGA	CTG	CGA	TGT	GTT	CGA	CTT	CGA	CTT	CAC	CCA	GCC	GAC	CCT	GCT
R	A	R	R	L	R	C	V	R	L	R	L	H	P	A	D	P	A
E	H	G	D	C	D	V	F	D	F	D	F	T	Q	P	T	L	L
S	T	A	T	A	M	C	S	T	S	T	S	P	S	R	P	C	C
S	R	C	H	S	L	R	A	*	C	R	R	A	Y	T	T	R	S
Q	D	A	I	L	C	G	P	E	A	V	G	P	T	R	Q	A	V

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S	I	P	L	S	V	A	P	S	L	L	A	Q	R	V	N	H	S
CGA	CTA	GCC	GTT	ACT	CTG	TCG	GCC	CGA	GTC	GTT	GCG	GAC	CGC	ATG	CAA	CAC	GCT
	5625			5634			5643			5652		5661		5670			
GCT	GAT	CGG	CAA	TGA	GAC	AGC	CGG	GCT	CAG	CAA	CGC	CTG	GCG	TAC	GTT	GTG	CGA
A	D	R	Q	*	D	S	R	A	Q	Q	R	L	A	Y	V	V	R
L	I	G	N	E	T	A	G	L	S	N	A	W	R	T	L	C	D
*	S	A	M	R	Q	P	G	S	A	T	P	G	V	R	C	A	T
C	P	*	C	G	S	P	R	S	R	S	S	A	S	R	P	S	R
V	R	D	A	D	R	H	G	A	G	R	A	R	Q	V	R	R	V
*	V	T	L	M	G	I	A	P	E	A	L	E	S	F	A	A	F
GAT	GTG	CCA	GTC	GTA	GGG	CTA	CCG	GCC	GAG	GCG	CTC	GAG	CGA	CTT	GCG	CCG	CTT
	5679			5688			5697			5706		5715		5724			
CTA	CAC	GGT	CAG	CAT	CCC	GAT	GGC	CGG	CTC	CGC	GAG	CTC	GCT	GAA	CGC	GGC	GAA
L	H	G	Q	H	P	D	G	R	L	R	E	L	A	E	R	G	E
Y	T	V	S	I	P	M	A	G	S	A	S	S	L	N	A	A	N
T	R	S	A	S	R	W	P	A	P	R	A	R	*	T	R	R	T
R	S	R	S	G	R	R	L	P	V	A	A	S	*	R	F	F	R
G	R	G	R	D	E	V	F	R	Y	P	L	P	D	A	S	S	G
A	A	V	A	I	R	*	S	A	T	R	C	R	I	L	P	L	V
GCG	GCG	CTG	GCG	CTA	GGA	GAT	GCT	TCG	CCA	TGC	CGT	CGC	CTA	GTC	GCC	TTC	TTG
	5733			5742			5751			5760		5769		5778			
CGC	CGC	GAC	CGC	GAT	CCT	CTA	CGA	AGC	GGT	ACG	GCA	GCG	GAT	CAG	CGG	AAG	AAC
R	R	D	R	D	P	L	R	S	G	T	A	A	D	Q	R	K	N
A	A	T	A	I	L	Y	E	A	V	R	Q	R	I	S	G	R	T
P	R	P	R	S	S	T	K	R	Y	G	S	G	S	A	E	E	P
L	L	E	R	L	L	R	P	Y	N	Y	R	A	R	A	R	D	Q
C	C	S	G	S	C	G	P	T	T	T	G	P	G	R	G	T	R
A	V	V	G	Q	A	A	P	P	L	Q	V	Q	G	A	G	P	G
GCG	TTG	TTG	AGG	GAC	TCG	TCG	GCC	CCC	ATC	AAC	ATG	GAC	CGG	GCG	CGG	GCC	AGG
	5787			5796			5805			5814		5823		5832			
CGC	AAC	AAC	TCC	CTG	AGC	AGC	CGG	GGG	TAG	TTG	TAC	CTG	GCC	CGC	GCC	CGG	TCC
R	N	N	S	L	S	S	R	G	*	(L)	Y	L	A	R	A	R	S
A	T	T	P	*	A	A	G	G	S	C	T	W	P	A	P	G	P
Q	Q	L	P	E	Q	P	G	V	V	V	P	G	P	R	P	V	L
I	R	G	V	I	E	A	H	R	E	F	D	G	A	L	R	G	L
S	G	G	W	S	R	R	T	G	S	S	T	A	Q	W	V	A	W
P	D	A	G	R	D	G	R	A	A	R	L	R	R	G	S	P	G
ACC	TAG	GCG	GGG	TGC	TAG	AGG	CGC	ACG	GCG	AGC	TTC	AGC	GGA	CGG	TCT	GCC	GGG
	5841			5850			5859			5868		5877		5886			
TGG	ATC	CGC	CCC	ACG	ATC	TCC	GCG	TGC	CGC	TCG	AAG	TCG	CCT	GCC	AGA	CGG	CCC
W	I	R	P	T	I	S	A	C	R	S	K	S	P	A	R	R	P
G	S	A	P	R	S	P	R	A	A	R	S	R	L	P	D	G	P
D	P	P	H	D	L	R	V	P	L	E	V	A	C	Q	T	A	Q

x6

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      T  A  A  P  D  S  G  L  T  L  A  E  V  D  G  E  Y  V
      R  P  L  P  T  R  A  W  R  *  L  R  S  T  V  R  T  C
      A  H  C  R  P  G  L  G  A  D  S  G  R  R  *  G  R  V
-----
TCG CAC CGT CGC CCC AGG CTC GGG TCG CAG TCT CGG AGC TGC AGT GGG AGC ATG
      5895          5904          5913          5922          5931          5940
AGC GTG GCA GCG GGG TCC GAG CCC AGC GTC AGA GCC TCG ACG TCA CCC TCG TAC
-----
      S  V  A  A  G  S  E  P  S  V  R  A  S  T  S  P  S  Y
      A  W  Q  R  G  P  S  P  A  S  E  P  R  R  H  P  R  T
      R  G  S  G  V  R  A  Q  R  Q  S  L  D  V  T  L  V  H
-----
      S  S  M  F  E  A  E  P  P  L  V  P  L  S  G  S  A  L
      P  P  C  S  N  R  K  P  R  C  C  R  C  P  A  R  R  S
      R  L  V  H  I  G  S  R  A  A  A  G  A  P  L  G  V  R
-----
TGC CTC CTG TAC TTA AGG CGA AGC CCG CCG TCG TGG CCG TCC CTC GGG CTG CGC
      5949          5958          5967          5976          5985          5994
ACG GAG GAC ATG AAT TCC GCT TCG GGC GGC AGC ACC GGC AGG GAG CCC GAC GCG
-----
      T  E  D  M  N  S  A  S  G  G  S  T  G  R  E  P  D  A
      R  R  T  *  I  P  L  R  A  A  A  P  A  G  S  P  T  R
      G  G  H  E  F  R  F  G  R  Q  H  R  Q  G  A  R  R  E
-----
      T  E  L  M  R  A  T  F  L  G  T  D  A  V  L  P  S  V
      R  K  S  C  G  P  R  S  C  G  R  T  P  W  S  R  A  S
      A  N  R  A  D  P  G  H  V  A  G  H  R  G  R  A  P  Q
-----
TCG CAA AGC TCG TAG GCC CGG CAC TTG TCG GGG CAC AGC CGG TGC TCG CCC GAC
      6003          6012          6021          6030          6039          6048
AGC GTT TCG AGC ATC CGG GCC GTG AAC AGC CCC GTG TCG GCC ACG AGC GGG CTG
-----
      S  V  S  S  I  R  A  V  N  S  P  V  S  A  T  S  G  L
      A  F  R  A  S  G  P  *  T  A  P  C  R  P  R  A  G  *
      R  F  E  H  P  G  R  E  Q  P  R  V  G  H  E  R  A  D
-----
      L  V  P  T  I  V  A  R  G  M  E  T  V  V  H  G  F  P
      W  C  R  R  S  S  P  G  D  W  R  P  S  S  M  D  S  R
      G  A  G  A  H  H  R  G  T  G  D  R  H  R  C  T  R  V
-----
TGG TCG TGG CCG CAC TAC TGC CGG GCA GGG TAG AGC CAC TGC TGT ACA GGC TTG
      6057          6066          6075          6084          6093          6102
ACC AGC ACC GGC GTG ATG ACG GCC CGT CCC ATC TCG GTG ACG ACA TGT CCG AAC
-----
      T  S  T  G  V  M  T  A  R  P  I  S  V  T  T  C  P  N
      P  A  P  A  *  *  R  P  V  P  S  R  *  R  H  V  R  T
      Q  H  R  R  D  D  G  P  S  H  L  G  D  D  M  S  E  R
-----
      V  P  P  Q  V  E  V  G  S  *  G  N  R  S  G  R  L  H
      C  R  R  S  S  R  S  A  A  E  A  T  G  A  G  A  S  T
      A  G  A  A  P  G  R  R  R  K  L  R  E  P  E  R  P  P
-----
CCG TGG CCG CCG ACC TGG AGC TGC GGC GAA GTC GGC AAG GCC GAG GGC GCC TCC
      6111          6120          6129          6138          6147          6156
GGC ACC GGC GGC TGG ACC TCG ACG CCG CTT CAG CCG TTC CGG CTC CCG CGG AGG
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G T G G W T S T P L Q P F R L P R R
A P A A G P R R R F S R S G S R G G
H R R L D L D A A S A V P A P A E V

H G R L R P L D G R G V V A R L G S
I D E F G P C T E G D W W R G C V R
S T R S A P A P R G T G G G G A S G

ACT ACA GGA GCT TCG GCC CCG TCC AGA GGG GCA GGG TGG TGG CGG GCG TCT GGG
6165 6174 6183 6192 6201 6210
TGA TGT CCT CGA AGC CGG GGC AGG TCT CCC CGT CCC ACC ACC GCC CGC AGA CCC

* C P R S R G R S P R P T T A R R P
D V L E A G A G L P V P P P P A D P
(M) S S K P G Q V S P S H H R P Q T R X7

D A A A P G T Q R G G R G R H V A E
I R R L R A Q R A A E V V E I F P K
F G G C G P R D P P R W S R S S R S

CTT AGG CGG CGT CGG CCC GGA CAG ACC GCC GGA GGT GCT GGA GCT ACT TGC CGA
6219 6228 6237 6246 6255 6264
GAA TCC GCC GCA GCC GGG CCT GTC TGG CGG CCT CCA CGA CCT CGA TGA ACG GCT

E S A A A G P V W R P P R P R * T A
N P P Q P G L S G G L H D L D E R L
I R R S R A C L A A S T T S M N G F

V A G L Q Q R H V A A R L G A G S R
W R G W N S G I Y Q L E Y D R E P G
G G G G T A A S T S C S T T G S R V

AGG TGG CGG GGG TCA ACG ACG GCT ACA TGA CGT CGA GCA TCA GGG CGA GGC CTG
6273 6282 6291 6300 6309 6318
TCC ACC GCC CCC AGT TGC TGC CGA TGT ACT GCA GCT CGT AGT CCC GCT CCG GAC

S T A P S C C R C T A A R S P A P D
P P P P V A A D V L Q L V V P L R T
H R P Q L L P M Y C S S * S R S G P

A G T S A T G A P A N R F L P L V R
L E R P H R V L Q P M G F C P F F E
S S G H I G Y W S P C E S V P S S S

GCT CGA GGG CAC CTA CGG CAT GGT CGA CCC CGT AAG GCT TTG TCC CCT TCT TGA
6327 6336 6345 6354 6363 6372
CGA GCT CCC GTG GAT GCC GTA CCA GCT GGG GCA TTC CGA AAC AGG GGA AGA ACT

R A P V D A V P A G A F R N R G R T
E L P W M P Y Q L G H S E T G E E L
S S R G C R T S W G I P K Q G K N S

G R R A L P G D V Q A A P R P R Q A
A G D P L P G T L K P Q L V L D S L
P G T P C P A R * S P S C S S T A S

GCC GGG GCA GCC CGT TCC CCG GGC AGT TGA ACC CGA CGT CCT GCT CCA GCG ACT

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6381	6390	6399	6408	6417	6426
CGG CCC CGT CGG GCA AGG GGC CCG TCA ACT TGG GCT GCA GGA CGA GGT CGC TGA					
R P R R A R G P S T W A A G R G R *					
G P V G Q G A R Q L G L Q D E V A E					
A P S G K G P V N L G C R T R S L S					
R L L A T A L E R D L P H R R L Q R					
A S Y L R R W N E I S H T G V S S D					
R P T S G D G I R S R T P A S P A T					
CGC GCC TCA TCT CGG CAG CGG TTA AGA GCT AGC TCA CCC ACG GCT GCC TCG ACA					
6435 6444 6453 6462 6471 6480					
GCG CGG AGT AGA GCC GTC GCC AAT TCT CGA TCG AGT GGG TGC CGA CGG AGC TGT					
A R S R A V A N S R S S G C R R S C					
R G V E P S P I L D R V G A D G A V					
A E * S R R Q F S I E W V P T E L S					
R R H R C R G L P R * F D I I L R R					
D A T A V G G L H G D S I S * * A G					
T P P P S V A W T A T L F R N D P A					
GCA GCC GCC ACC GCT GTG GCG GGT TCA CCG GCA GTC TTT AGC TAA TAG TCC GCG					
6489 6498 6507 6516 6525 6534					
CGT CGG CGG TGG CGA CAC CGC CCA AGT GGC CGT CAG AAA TCG ATT ATC AGG CGC					
R R R W R H R P S G R Q K S I I R R					
V G G G D T A Q V A V R N R L S G A					
S A (V) A T P P K W P S E I D Y Q A P					
D R P F S C A L E I Q E D S L Y Q R					
T G P F R A P W N S R S T R C I S G					
P G Q S V L L G T R D A R G V S V A					
GCC AGG GAC CCT TTG CTC GTC CGG TCA AGC TAG ACG AGC AGG CTG TCT ATG ACG					
6543 6552 6561 6570 6579 6588					
CGG TCC CTG GGA AAC GAG CAG GCC AGT TCG ATC TGC TCG TCC GAC AGA TAC TGC					
R S L G N E Q A S S I C S S D R Y C					
G P W E T S R P V R S A R P T D T A					
V P G K R A G Q F D L L V R Q I L P					
A E F M F V L H T G W R V D P E V P					
P R S C S C L I H E G A C T R S W R					
P G R V H V C S T N G L A R G A G G					
GCC CGG AGC TTG TAC TTG TGT TCT ACA CAA GGG GTC GCG TGC AGG CCG AGG TGG					
6597 6606 6615 6624 6633 6642					
CGG GCC TCG AAC ATG AAC ACA AGA TGT GTT CCC CAG CGC ACG TCC GGC TCC ACC					
R A S N M N T R C V P Q R T S G S T					
G P R T * T Q D V F P S A R P A P P					
G L E H E H K M C S P A H V R L H R					
L H R P I Q E D M R S L A G S V R V					
F I G R S R S T W G R F R A A S G S					

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      A P V A A * P G A E L V D A A R V L
      L R S R Q E P A Q R W C T P Q G S W
      * G P G S S L P R G G A R R S G P G
      ---
AGT CGG CCC TGG CGA CGA GTC CCC GGA CGG AGG TCG TGC AGC CGA CGG GCC TGG
      6921          6930          6939          6948          6957          6966
TCA GCC GGG ACC GCT GCT CAG GGG CCT GCC TCC AGC ACG TCG GCT GCC CGG ACC
      ---
      S A G T A A Q G P A S S T S A A R T
      Q P G P L L R G L P P A R R L P G P
      S R D R C S G A C L Q H V G C P D Q
      ---
      V A S R T G I K L R E L A K V P A V
      Y P R A P A S R * G S W P R * P L W
      T R G L P H R D E A A G P G K R S G
      ---
TCA TGC CGG CTC GCC CAC GGC TAG AAG TCG GCG AGG TCC CGG AAA TGC CCT CGG
      6975          6984          6993          7002          7011          7020
AGT ACG GCC GAG CGG GTG CCG ATC TTC AGC CGC TCC AGG GCC TTT ACG GGA GCC
      ---
      S T A E R V P I F S R S R A F T G A
      V R P S G C R S S A A P G P L R E P
      Y G R A G A D L Q P L Q G L Y G S H
      ---
      P I K R S R D T V A I V A H A P L A
      R S R V A A T P S P S * R M R P C R
      G P D * P Q P R H R R D G C A R A A
      ---
TGG CCC TAG AAT GCC GAC GCC AGC CAC TGC CGC TAG TGG CGT ACG CGC CCG TCG
      7029          7038          7047          7056          7065          7074
ACC GGG ATC TTA CGG CTG CGG TCG GTG ACG GCG ATC ACC GCA TGC GCG GGC AGC
      ---
      T G I L R L R S V T A I T A C A G S
      P G S Y G C G R * R R S P H A R A A
      R D L T A A V G D G D H R M R G Q R
      ---
      S A L S R L L A R W R S R P C R G K
      R R S R A C C P G G G A A R A G A R
      G V R A L A A P G A V P Q A P V Q G
      ---
CGG CTG CGC TCG CTC GCG TCG TCC CGG GCG GTG GCC GAC GCG CCC GTG GAC GGG
      7083          7092          7101          7110          7119          7128
GCC GAC GCG AGC GAG CGC AGC AGG GCC CGC CAC CGG CTG CGC GGG CAC CTG CCC
      ---
      A D A S E R S R A R H R L R G H L P
      P T R A S A A G P A T G C A G T C P
      R R E R A Q Q G P P P A A R A P A L
      ---
      G T R A S G Y P L D A L V V D P A S
      G L A H A G T R C T P W C S M P R P
      E W H T R E R V A P R G A R C R A R
      ---
AAG GGT CAC GCA CGC GAG GGC ATG CCG TCC AGC CGG TCG TGC TGT AGC CCG CGC
      7137          7146          7155          7164          7173          7182
TTC CCA GTG CGT GCG CTC CCG TAC GGC AGG TCG GCC AGC ACG ACA TCG GGC GCG
      ---

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F P V R A L P Y G R S A S T T S G A
 S Q C V R S R T A G R P A R H R A R
 P S A C A P V R Q V G Q H D I G R G

 G A L V A S L A R P D F V D A T R I
 G P S S P P C R V R I S S T R P A S
 V R R P R R V A C A S R L R G R H P

 CTG GGC CGC TCC TGC CGC CTG TCG CGT GCG CCT AGC TTC TGC AGG CGC CAC GCC
 7191 7200 7209 7218 7227 7236
 GAC CCG GCG AGG ACG GCG GAC AGC GCA CGC GGA TCG AAG ACG TCC GCG GTG CGG

 D P A R T A D S A R G S K T S A V R
 T R R G R R T A H A D R R R P R C G
 P G E D G G Q R T R I E D V R G A D

 A C P L A G G E A T L R E R L R R A
 P A R C R V A R R R * A S G C G A P
 H R V A A C R G G G D P A G A A P P

 TAC CGC GTG CCG TCG CGT GGC GGG AGG CGG CAG TCC GCG AGG GCG TCG GCC GCC
 7245 7254 7263 7272 7281 7290
 ATG GCG CAC GGC AGC GCA CCG CCC TCC GCC GTC AGG CGC TCC CGC AGC CGG CGG

 M A H G S A P P S A V R R S R S R R
 W R T A A H R P P P S G A P A A G G
 G A R Q R T A L R R Q A L P Q P A G

 A Q A A E L Y S P K G F R E S Q E R
 P R R P R W I P P S A S V S A R S V
 R G A R G G S L L A Q R F A R E A *

 CGC CGG ACG CGC CGG AGG TCT ATC CTC CCG AAC GGC TTT GCG AGC GAG ACG AGT
 7299 7308 7317 7326 7335 7344
 GCG GCC TGC GCG GCC TCC AGA TAG GAG GGC TTG CCG AAA CGC TCG CTC TGC TCA

 A A C A A S R * E G L P K R S L C S
 R P A R P P D R R A C R N A R S A H
 G L R G L Q I G G L A E T L A L L T

 R E L E R A T L G A P S L L A L N K
 G N S S A R P * G P R R S C P S I R
 A T R A R A R D A R G A L A P R S E

 GCG GCA AGC TCG AGC GCG CGC CAG TCG GGC CGG CCG CTC TCG TCC CGC TCT AAG
 7353 7362 7371 7380 7389 7398
 CGC CGT TCG AGC TCG CGC GCG GTC AGC CCG GCC GGC GAG AGC AGG GCG AGA TTC

 R R S S S R A V S P A G E S R A R F
 A V R A R A R S A R P A R A G R D S
 P F E L A R G Q P G R R E Q G E I L

 A A L E L P A P D V D S A I V Q R L
 R R S S W R P P T W M P P S * R G C
 E G R A G A P R P G C R L R D G A A

 AAG CGG CGC TCG AGG TCG CCC CGC CCC AGG TGT AGC CTC CGC TAG TGG ACG GCG

	7407		7416		7425		7434		7443		7452						
TTC	GCC	GCG	AGC	TCC	AGC	GGG	GCG	GGG	TCC	ACA	TCG	GAG	GCG	ATC	ACC	TGC	CGC

F	A	A	S	S	S	G	A	G	S	T	S	E	A	I	T	C	R
S	P	R	A	P	A	G	R	G	P	H	R	R	R	S	P	A	A
R	R	E	L	Q	R	G	G	V	H	I	G	G	D	H	L	P	Q

S	R	R	H	L	L	G	L	V	T	L	L	Y	G	S	G	C	C
R	A	G	T	C	C	G	W	C	R	*	S	T	V	A	A	A	A
A	L	A	P	A	A	A	G	A	G	D	P	P	L	R	Q	R	L

TCG	CTC	GCG	GCC	ACG	TCG	TCG	GGG	TCG	TGG	CAG	TCC	TCC	ATT	GGC	GAC	GGC	GTC
	7461				7470				7479				7488			7497	
AGC	GAG	CGC	CGG	TGC	AGC	AGC	CCC	AGC	ACC	GTC	AGG	AGG	TAA	CCG	CTG	CCG	CAG

S	E	R	R	C	S	S	P	S	T	V	R	R	*	P	L	P	Q
A	S	A	G	A	A	A	P	A	P	S	G	G	N	R	C	R	S
R	A	P	V	Q	Q	P	Q	H	R	Q	E	V	T	A	A	A	A

P	D	W	L	T	V	P	G	D	G	P	L	R	A	L	A	R	Q
R	T	G	C	R	*	R	V	T	A	P	S	A	P	S	P	G	S
V	P	G	V	A	D	G	S	R	R	R	P	P	P	R	P	G	A

GTG	CCC	AGG	GTG	TCG	CAG	TGG	CCT	GGC	AGC	GGC	CCC	TCC	GCC	CGC	TCC	CGG	GCG
	7515				7524				7533				7542			7551	
CAC	GGG	TCC	CAC	AGC	GTC	ACC	GGA	CCG	TCG	CCG	GGG	AGG	CGG	GCG	AGG	GCC	CGC

H	G	S	H	S	V	T	G	P	S	P	G	R	R	A	R	A	R
T	G	P	T	A	S	P	D	R	R	R	G	G	G	R	G	P	A
R	V	P	Q	R	H	R	T	V	A	G	E	A	G	E	G	P	L

F	I	E	T	A	L	R	V	P	F	A	P	Y	G	P	A	S	H
S	S	R	P	R	W	A	S	P	S	P	P	T	V	R	R	P	T
P	L	D	R	D	G	P	P	R	P	L	R	P	L	G	A	R	L

ACC	TTC	TAG	AGC	CAG	CGG	TCC	GCC	TGC	CCC	TTC	CGC	CCC	ATT	GGG	CCG	CGC	CTC
	7569				7578				7587				7596			7605	
TGG	AAG	ATC	TCG	GTC	GCC	AGG	CGG	ACG	GGG	AAG	GCG	GGG	TAA	CCC	GGC	GCG	GAG

W	K	I	S	V	A	R	R	T	G	K	A	G	*	P	G	A	E
G	R	S	R	S	P	G	G	R	G	R	R	G	N	P	A	R	S
E	D	L	G	R	Q	A	D	G	E	G	G	V	T	R	R	G	V

L	V	V	G	C	A	L	D	S	S	D	I	R	E	V	A	H	R
S	C	S	V	A	P	S	I	P	V	T	S	G	S	W	P	T	A
P	A	R	C	R	L	R	S	R	F	Q	R	D	A	G	R	R	P

ACC	TCG	TGC	TGT	GGC	GTC	CGC	TCT	AGC	CTT	GAC	AGC	TAG	GCG	AGG	TGC	CGC	ACC
	7623				7632				7641				7650			7659	
TGG	AGC	ACG	ACA	CCG	CAG	GCG	AGA	TCG	GAA	CTG	TCG	ATC	CGC	TCC	ACG	GCG	TGG

W	S	T	T	P	Q	A	R	S	E	L	S	I	R	S	T	A	W
G	A	R	H	R	R	R	D	R	N	C	R	S	A	P	R	R	G
E	H	D	T	A	G	E	I	G	T	V	D	P	L	H	G	V	A

Y	A	S	(V)	Q	G	S	G	L	V	E	S	G	G	G	D	C	G
T	R	V	*	R	D	V	G	W	Y	K	P	V	A	E	T	A	A



Ra

100446 0000

10064846 "022502"

P V C E G T W E G T S R F R R R R L
GCC ATG CGT GAG TGG ACA GGT GAG GGG TCA TGA AGC CTT GGC GGA GGC AGC GTC
7677 7686 7695 7704 7713 7722
CGG TAC GCA CTC ACC TGT CCA CTC CCC AGT ACT TCG GAA CCG CCT CCG TCG CAG
R Y A L T C P L P S T S E P P P S Q
G T H S P V H S P V L R N R L R R S
V R T H L S T P Q Y F G T A S V A A
Q L S * L A A A G A P S A G L Q R R
R F R D Y H R P G P R P L E W S G G
G S A I M T G R G R G P F S G A A A
GGG ACT TCG CTA GTA TCA CGG CGC CGG GGC CGG CCC CTT CGA GGC TCG ACG GCG
7731 7740 7749 7758 7767 7776
CCC TGA AGC GAT CAT AGT GCC GCG GCC CCG GCC GGG GAA GCT CCC AGC TGC CGC
P * S D H S A A A P A G E A P S C R
P E A I I V P R P R P G K L P A A A
L K R S * C R G P G R G S S Q L P P
V C L D G A G G P S D T T G P S A P
S V C T V P A E P A T P R G L H L R
P C V P * R R R R P Q R D D W T F G
GCC TGT GTG TCC AGT GGC CGC GGA GGC CCC GAC AGC CAG CAG GGT CCA CTT CGG
7785 7794 7803 7812 7821 7830
CGG ACA CAC AGG TCA CCG GCG CCT CCG GGG CTG TCG GTC GTC CCA GGT GAA GCC
R T H R S P A P P G L S V V P G E A
G H T G H R R L R G C R S S Q V K P
D T Q V T G A S G A V G R P R * S R
R D A R D G G L D R L N E R I H G S
A T P A T V A W I E S T K G F T G R
P P R R P * R G F R Q P K G S H A G
CCC GCC AGC CGC GCC AGT GGC GGG TTT AGA GAC TCC AAA AGG GCT TAC ACG GGG
7839 7848 7857 7866 7875 7884
GGG CGG TCG GCG CGG TCA CCG CCC AAA TCT CTG AGG TTT TCC CGA ATG TGC CCC
G R S A R S P P K S L R F S R M C P
G G R R G H R P N L * G F P E C A P
A V G A V T A Q I S E V F P N V P R
R R N G C E S A T T A L F P P G H G
G V I A A S R H R L Q S S P R A M D
V * S Q R V G I G Y N R P L A P W T
CTG GAT GCT AAC GGC GTG AGG CTA CGG CAT CAA CGC TCC TTC CCG CCC GGT ACA
7893 7902 7911 7920 7929 7938
GAC CTA CGA TTG CCG CAC TCC GAT GCC GTA GTT GCG AGG AAG GGC GGG CCA TGT
D L R L P H S D A V V A R K G G P C
T Y D C R T P M P * L R G R A G H V
P T I A A L R C R S C E E G R A (M) S

Q

H	E	R	P	E	*	G	S	C	T	Q	Q	H	G	S	P	R	A
M	N	G	P	N	E	A	P	V	R	R	S	T	V	P	P	A	P
W	T	G	P	T	R	L	R	F	V	D	A	P	S	R	L	P	P

GGT	ACA	AGG	GCC	CCA	AGA	GTC	GGC	CTT	GTG	CAG	ACG	ACC	ACT	GGC	CTC	CCC	GCC
	7947				7956			7965			7974			7983			7992
CCA	TGT	TCC	CGG	GGT	TCT	CAG	CCG	GAA	CAC	GTC	TGC	TGG	TGA	CCG	GAG	GGG	CGG

P	C	S	R	G	S	Q	P	E	H	V	C	W	*	P	E	G	R
H	V	P	G	V	L	S	R	N	T	S	A	G	D	R	R	G	G
M	F	P	G	F	S	A	G	T	R	L	L	V	T	G	G	A	G

E	D	A	R	V	H	D	V	G	E	Q	L	G	P	G	L	D	G
K	M	P	E	C	T	T	S	A	K	R	S	A	P	A	S	T	V
S	*	R	S	A	R	P	R	R	R	G	P	P	R	P	R	P	*

CGA	AGT	AGC	CGA	GCG	TGC	ACC	AGC	TGC	GGA	AGG	ACC	TCC	GGC	CCC	GGC	TCC	AGT
	8001				8010			8019			8028			8037			8046
GCT	TCA	TCG	GCT	CGC	ACG	TGG	TCG	ACG	CCT	TCC	TGG	AGG	CCG	GGG	CCG	AGG	TCA

A	S	S	A	R	T	W	S	T	P	S	W	R	P	G	P	R	S
L	H	R	L	A	R	G	R	R	L	P	G	G	R	G	R	G	H
F	I	G	S	H	V	V	D	A	F	L	E	A	G	A	E	V	T

H	Q	V	V	Q	G	G	T	V	R	F	T	Q	V	W	T	R	D
T	S	S	S	R	V	V	P	S	G	S	R	R	S	G	R	A	T
R	A	P	R	G	S	W	R	H	G	P	V	D	P	G	V	H	P

GGC	ACG	ACC	TGC	TGG	ACT	GGT	GGC	CAC	TGG	GCC	TTG	CAG	ACC	TGG	GTG	CAC	GCC
	8055				8064			8073			8082			8091			8100
CCG	TGC	TGG	ACG	ACC	TGA	CCA	CCG	GTG	ACC	CGG	AAC	GTC	TGG	ACC	CAC	GTG	CGG

P	C	W	T	T	*	P	P	V	T	R	N	V	W	T	H	V	R
R	A	G	R	P	D	H	R	*	P	G	T	S	G	P	T	C	G
V	L	D	D	L	T	T	G	D	P	E	R	L	D	P	R	A	V

D	T	A	D	V	H	G	I	G	G	G	Q	V	L	G	H	P	R
M	R	R	T	S	T	V	S	A	A	A	R	S	S	A	T	R	D
*	G	D	R	R	R	S	R	H	R	R	G	P	R	P	R	A	T

AGT	AGG	CAG	CGC	AGC	TGC	ACT	GGC	TAC	GGC	GGC	GGG	ACC	TGC	TCC	GGC	ACG	CCA
	8109				8118			8127			8136			8145			8154
TCA	TCC	GTC	GCG	TCG	ACG	TGA	CCG	ATG	CCG	CCG	CCC	TGG	ACG	AGG	CCG	TGC	GGT

S	S	V	A	S	T	*	P	M	P	P	P	W	T	R	P	C	G
H	P	S	R	R	R	D	R	C	R	R	P	G	R	G	R	A	V
I	R	R	V	D	V	T	D	A	A	A	L	D	E	A	V	R	S

R	A	G	V	D	D	A	M	E	R	G	L	D	V	D	P	D	R
A	R	G	S	T	M	Q	W	R	A	A	W	I	S	T	R	T	E
P	A	G	R	R	*	R	G	D	R	P	G	S	R	R	G	P	R

GCC	GCG	CGG	GGC	TGC	AGT	AGA	CGG	TAG	AGC	GCC	GGG	TCT	AGC	TGC	AGG	CCC	AGA
	8163				8172			8181			8190			8199			8208
CGG	CGC	GCC	CCG	ACG	TCA	TCT	GCC	ATC	TCG	CGG	CCC	AGA	TCG	ACG	TCC	GGG	TCT

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R R A P T S S A I S R P R S T S G S
G A P R R H L P S R G P D R R P G L
A R P D V I C H L A A Q I D V R V S

H G C R G D V R P D V D L A R D V H
T A V G A T S A R T L T S P V I L T
P P W V P R R R A P * R R P C S * R
-----
GCC ACC GGT GTG GCC GGC AGC TGC GCG CCC AGT TGC AGC TCC CGT GCT AGT TGC
      8217      8226      8235      8244      8253      8262
CGG TGG CCA CAC CGG CCG TCG ACG CGC GGG TCA ACG TCG AGG GCA CGA TCA ACG
-----
R W P H R P S T R G S T S R A R S T
G G H T G R R R A G Q R R G H D Q R
V A T P A V D A R V N V E G T I N V

Q F R R V G D P R P D H E G G G A P
S S A A C A T P A R T T N A E V P P
A P L P A R R R P A P R T R R W R R
-----
ACG ACC TTC GCC GCG TGC GGC AGC CCC GCG CCC AGC ACA AGC GGA GGT GGC CGC
      8271      8280      8289      8298      8307      8316
TGC TGG AAG CGG CGC ACG CCG TCG GGG CGC GGG TCG TGT TCG CCT CCA CCG GCG
-----
C W K R R T P S G R G S C S P P P A
A G S G A R R R G A G R V R L H R R
L E A A H A V G A R V V F A S T G G

R E V P F A N R D R R V L V R Q G P
A S * P S P T G T G V F S S V S G L
P A R R P L R E P G S S R P C A A W
-----
CCC GCG AGA TGC CCC TTC CGC AAG GCC AGG GCT GCT TGC TCC TGT GCG ACG GGT
      8325      8334      8343      8352      8361      8370
GGG CGC TCT ACG GGG AAG GCG TTC CGG TCC CGA CGA ACG AGG ACA CGC TGC CCA
-----
G R S T G K A F R S R R T R T R C P
G A L R G R R S G P D E R G H A A Q
A L Y G E G V P V P T N E D T L P R

R P R G V A R G L V A R L L V D A Q
G P A G * P V A L Y Q A S F Y M P R
A P P A R R C P W T S R P S T C R G
-----
CCG GCC CCC GCG GGA TGC CGT GCC GGT TCA TGA CGC GCC TCT TCA TGT AGC CGG
      8379      8388      8397      8406      8415      8424
GGC CGG GGG CGC CCT ACG GCA CGG CCA AGT ACT GCG CGG AGA AGT ACA TCG GCC
-----
G R G R P T A R P S T A R R S T S A
A G G A L R H G Q V L R G E V H R P
P G A P Y G T A K Y C A E K Y I G L

E V P Q V S G L V A H Q P E A V H V
N L R S C P V S C L T N R S P L T Y
T * G A A R F R A C R T A A R C R T
-----
ACA AGT TGG CCG ACG TGC CTT GGC TCG TGT CGC ACA ACG CCG AGC CGT TGC ACA

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8433			8442			8451			8460			8469			8478		
TGT	TCA	ACC	GGC	TGC	ACG	GAA	CCG	AGC	ACA	GCG	TGT	TGC	GGC	TCG	GCA	ACG	TGT
C	S	T	G	C	T	E	P	S	T	A	C	C	G	S	A	T	C
V	Q	P	A	A	R	N	R	A	Q	R	V	A	A	R	Q	R	V
F	N	R	L	H	G	T	E	H	S	V	L	R	L	G	N	V	Y
P	G	P	L	A	R	A	T	L	R	A	D	D	G	D	V	A	P
P	G	R	C	L	G	P	P	S	A	P	T	M	A	M	*	Q	P
R	A	G	A	S	G	P	R	H	P	P	R	*	R	W	R	S	R
TGC	CCG	GGG	CCG	TCT	CGG	GCC	CGC	CAC	TCC	GCC	CGC	AGT	AGC	GGT	AGA	TGA	CGC
8487			8496			8505			8514			8523			8532		
ACG	GGC	CCC	GGC	AGA	GCC	CGG	GCG	GTG	AGG	CGG	GCG	TCA	TCG	CCA	TCT	ACT	GCG
T	G	P	G	R	A	R	A	V	R	R	A	S	S	P	S	T	A
R	A	P	A	E	P	G	R	*	G	G	R	H	R	H	L	L	R
G	P	R	Q	S	P	G	G	E	A	G	V	I	A	I	Y	C	G
Q	G	G	L	A	S	H	G	R	H	E	A	V	T	R	L	G	T
S	A	E	S	P	P	T	G	V	T	N	P	S	P	E	C	V	R
A	P	R	R	P	R	L	A	W	P	T	R	R	R	N	A	S	G
CCG	ACC	GGA	GGC	TCC	CGC	CTC	ACG	GGT	GCC	ACA	AGC	CGC	TGC	CAA	GCG	TCT	GGG
8541			8550			8559			8568			8577			8586		
GGC	TGG	CCT	CCG	AGG	GCG	GAG	TGC	CCA	CGG	TGT	TCG	GCG	ACG	GTT	CGC	AGA	CCC
G	W	P	P	R	A	E	C	P	R	C	S	A	T	V	R	R	P
A	G	L	R	G	R	S	A	H	G	V	R	R	R	F	A	D	P
L	A	S	E	G	G	V	P	T	V	F	G	D	G	S	Q	T	R
V	V	H	V	D	A	V	D	G	R	R	E	D	R	R	V	A	G
S	*	T	Y	T	P	S	T	A	A	A	N	T	A	G	Y	P	V
H	S	R	T	R	R	R	R	R	R	P	T	R	R	A	T	R	C
CAC	TGA	TGC	ACA	TGC	AGC	CGC	TGC	AGC	GGC	GCC	GCA	AGC	AGC	GCG	GCA	TGC	CGT
8595			8604			8613			8622			8631			8640		
GTG	ACT	ACG	TGT	ACG	TCG	GCG	ACG	TCG	CCG	CGG	CGT	TCG	TCG	CGC	CGT	ACG	GCA
V	T	T	C	T	S	A	T	S	P	R	R	S	S	R	R	T	A
*	L	R	V	R	R	R	R	R	R	G	V	R	R	A	V	R	H
D	Y	V	Y	V	G	D	V	A	A	A	F	V	A	P	Y	G	T
D	A	R	R	R	S	C	R	V	R	A	L	P	A	R	H	Q	L
T	P	G	A	D	P	V	D	S	V	P	L	P	L	V	T	S	S
R	R	G	P	T	Q	F	M	P	C	P	C	P	S	C	P	A	P
GGC	AGC	CGG	GCC	GCA	GAC	CTT	GTA	GCC	TGT	GCC	CGT	TCC	CCT	CGT	GCC	ACG	ACC
8649			8658			8667			8676			8685			8694		
CCG	TCG	GCC	CGG	CGT	CTG	GAA	CAT	CGG	ACA	CGG	GCA	AGG	GGA	GCA	CGG	TGC	TGG
P	S	A	R	R	L	E	H	R	T	R	A	R	G	A	R	C	W
R	R	P	G	V	W	N	I	G	H	G	Q	G	E	H	G	A	G
V	G	P	A	S	G	T	S	D	T	G	K	G	S	T	V	L	E
D	E	V	V	D	G	G	G	G	P	A	V	Q	R	G	T	E	R
T	R	S	W	M	A	A	A	E	P	R	S	R	G	G	R	K	A

P G R G C R R R R R A R G A E G N R
 TCC AGG AGC TGG TGT AGC GGC GGC GGA GGC CCG CGC TGG ACG GAG GGG CAA AGC
 8703 8712 8721 8730 8739 8748
 AGG TCC TCG ACC ACA TCG CCG CCG CCT CCG GGC GCG ACC TGC CTC CCC GTT TCG
 R S S T T S P P P P G A T C L P V S
 G P R P H R R R L R A R P A S P F R
 V L D H I A A A S G R D L P P R F A
 G A P R A L D L V A G Q V D S T D G
 G R R G P S I W C L V R S T V R T A
 A G G A P R S G A C C G P R * E H R
 GCG GGG CGG CCG GCC CGC TCT AGG TCG TGT CGT GGG ACC TGC AGT GAG CAC AGC
 8757 8766 8775 8784 8793 8802
 CGC CCC GCC GGC CGG GCG AGA TCC AGC ACA GCA CCC TGG ACG TCA CTC GTG TCG
 R P A G R A R S S T A P W T S L V S
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 P R R P G E I Q H S T L D V T R V A
 G I Q A P G R G D R Q L F A D G G G
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 P P I W A G P R P S R W R K A S P P
 R R S G L D R V R P A G E R H R R H
 A D L G W T A S V P L E K G I A A T
 V G P D T G T R G D P L L C S * S A
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 CCT ACG CCT GGG TCC GTT CCG GTT CGC CCG TCC GGC AGC AGG CAT GAC TAA CTT
 P T P G S V P V R P S G S R H D * L
 L R L G P F R F A R P A A G M T N L
 Y A W V R S G S P V R Q Q A * L T C
 C A C C S D T A S A S R P P P G T C
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 R L R L L L G H G V G I A T A A G Y
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 GCG CAG GCG CAG CAG GAG TCC GTG GCC GAC GCC GAT CGC GGT GGC GGC CCC GTA
 A Q A Q Q E S V A D A D R G G G P V
 R R R S R S P W P T P I A V A A P Y
 A G A A G V R G R R R S R W R P R T

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A	S	C	C	H	H	A	A	R	S	R	R	P	A	T	G	P	*
R	L	V	A	T	T	H	L	A	V	G	A	R	H	P	A	P	D
V	C	F	L	L	P	T	C	R	S	E	P	A	T	R	H	R	T

GTG	CGT	CTT	GTC	GTC	ACC	ACA	CGT	CGC	GCT	GAG	GCC	GCG	CCA	CGC	CAC	GGC	CCA
	8973				8982			8991			9000			9009			9018
CAC	GCA	GAA	CAG	CAG	TGG	TGT	GCA	GCG	CGA	CTC	CGG	GCG	GGT	GCG	GTG	CCG	GGT

H	A	E	Q	Q	W	C	A	A	R	L	R	R	G	A	V	P	G
T	Q	N	S	S	G	V	Q	R	D	S	G	A	V	R	C	R	V
R	R	T	A	V	V	C	S	A	T	P	A	R	C	G	A	G	S

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A	G	Q	P	T	G	G	G	V	P	A	T	A	G	G	F	A	G
L	E	K	R	L	G	A	A	S	Q	H	R	R	A	E	S	R	V

GTC	GAG	GAA	CGC	CTC	AGG	GCG	GCG	GCT	GAC	CAC	GGC	AGC	GCG	GAG	GCT	TGC	GTG
	9027				9036			9045			9054			9063			9072
CAG	CTC	CTT	GCG	GAG	TCC	CGC	CGC	CGA	CTG	GTG	CCG	TCG	CGC	CTC	CGA	ACG	CAC

Q	L	L	A	E	S	R	R	R	L	V	P	S	R	L	R	T	H
S	S	L	R	S	P	A	A	D	W	C	R	R	A	S	E	R	T
A	P	C	G	V	P	P	P	T	G	A	V	A	P	P	N	A	P

A	L	L	G	P	A	P	P	L	P	P	H	A	P	R	P	R	C
Q	W	Y	A	R	R	L	L	Y	R	L	T	L	R	G	P	D	V
R	G	T	P	G	A	C	S	T	A	S	P	S	G	A	P	T	S

GGA	CGG	TCA	TCC	GGG	CCG	CGT	CCT	CCA	TCG	CCT	CCC	ACT	CGG	CCG	GCC	CCA	GCT
	9081				9090			9099			9108			9117			9126
CCT	GCC	AGT	AGG	CCC	GGC	GCA	GGA	GGT	AGC	GGA	GGG	TGA	GCC	GGC	CGG	GGT	CGA

P	A	S	R	P	G	A	G	G	S	G	G	*	A	G	R	G	R
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C	Q	*	A	R	R	R	R	*	R	R	V	S	R	P	G	S	T

R	P	R	G	R	A	R	A	A	P	L	E	R	A	G	A	E	K
D	H	V	V	A	H	E	P	L	L	C	S	A	R	V	R	R	R
M	T	S	S	R	T	S	P	C	C	A	A	R	A	C	G	G	G

GTA	GCA	CCT	GCT	GGC	GCA	CGA	GCC	CGT	CGT	CCG	TCG	AGC	GCG	CGT	GGG	CGG	AGG
	9135				9144			9153			9162			9171			9180
CAT	CGT	GGA	CGA	CCG	CGT	GCT	CGG	GCA	GCA	GGC	AGC	TCG	CGC	GCA	CCC	GCC	TCC

H	R	G	R	P	R	A	R	A	A	G	S	S	R	A	P	A	S
I	V	D	D	R	V	L	G	Q	Q	A	A	R	A	H	P	P	P
S	W	T	T	A	C	S	G	S	R	Q	L	A	R	T	R	L	L

M	L	A	I	F	S	T	D	E	G	S	Q	L	N	V	G	T	R
*	*	R	S	S	P	P	T	R	V	P	S	C	T	S	A	P	A
E	D	A	R	H	L	L	H	G	*	R	V	A	P	Q	R	R	H

AAG	TAG	TCG	CGC	TAC	TTC	CTC	CAC	AGG	AGT	GGC	CTG	ACG	TCC	AAC	TGC	GGC	CAC
	9189				9198			9207			9216			9225			9234
TTC	ATC	AGC	GCG	ATG	AAG	GAG	GTG	TCC	TCA	CCG	GAC	TGC	AGG	TTG	ACG	CCG	GTG

F I S A M K E V S S P D C R L T P V
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 S L D L D F T L G Q R R A F D A D V
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 GCC GAG TCC AGG TCC AGC TTC CAC TCC GGG ACC GCC GCG CGC TTC AGC CGC AGC
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 A Q V Q V E G E A L A A R E V G V D

 G M C A G W I K I D G R D R H W G V
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 R G H L R G L D Q H G R P R P A L R

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 T P M Q A P Q I L M S P R S R C Q P
 R P C R R P R S * C P R G R G A S R
 A H A G A P D L D V P A V A V P A D

 L H F Q G S S L F W P L R R L E R P
 S T S S G R P C S G P C G A S S E R
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 ACG AGG TGG AAC TGC CCC GAG GAC AGG AAC CAG GGC AGC CGG CGG AGC TCT CGC

 T R W N C P E D R N Q G S R R S S R
 R G G T A P R T G T R A A G G A L A
 E V E L P R G Q E P G Q P A E L S R

 P R L R A G V V H A G A R F A A R V
 R D C G R V S W T R G P A S R P A S
 A T A A A C R G R A G R R P V R R P

 CCG CCA GCG TCG GCG CGT GGC TGG TGC ACG CGG GGC CGC GCC TTG CGC CGC GCC
 9405 9414 9423 9432 9441 9450
 GGC GGT CGC AGC CGC GCA CCG ACC ACG TGC GCC CCG GCG CGG AAC GCG GCG CGG

 G G R S R A P T T C A P A R N A A R
 A V A A A H R P R A P R R G T R R G
 R S Q P R T D H V R P G A E R G A D

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 TGC CGC AGG TGC CGC CTC CGG AGG TCG GCG TGC AGC AGC AGG TGC TTG TCG TGC

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9459			9468			9477			9486			9495			9504		
ACG	GCG	TCC	ACG	GCG	GAG	GCC	TCC	AGC	CGC	ACG	TCG	TCG	TCC	ACG	AAC	AGC	ACG

T	A	S	T	A	E	A	S	S	R	T	S	S	S	T	N	S	T
R	R	P	R	R	R	P	P	A	A	R	R	R	P	R	T	A	R
G	V	H	G	G	G	L	Q	P	H	V	V	V	H	E	Q	H	V

R	D	A	W	E	R	L	V	T	N	R	S	A	S	L	G	R	T
G	T	P	G	N	G	C	C	R	T	V	P	R	R	C	G	E	R
A	P	R	G	M	G	A	A	G	H	*	P	V	G	V	A	R	A

ACG	GCC	AGC	CGG	GTA	AGG	GCG	TCG	TGG	CAC	AAT	GCC	CTG	CGG	CTG	TCG	GGA	GCG
9513			9522			9531			9540			9549			9558		
TGC	CGG	TCG	GCC	CAT	TCC	CGC	AGC	ACC	GTG	TTA	CGG	GAC	GCC	GAC	AGC	CCT	CGC

C	R	S	A	H	S	R	S	T	V	L	R	D	A	D	S	P	R
A	G	R	P	I	P	A	A	P	C	Y	G	T	P	T	A	L	A
P	V	G	P	F	P	Q	H	R	V	T	G	R	R	Q	P	S	R

A	G	L	I	R	M	T	G	G	A	E	N	V	Q	T	A	V	K
P	G	W	S	G	C	R	G	G	P	R	T	*	R	P	P	S	R
H	G	G	P	D	A	D	D	G	R	G	R	E	G	P	H	R	G

CAC	CGG	GGG	TCC	TAG	GCG	TAG	CAG	GGG	GGC	CGG	AGC	AAG	TGG	ACC	CAC	CGC	TGG
9567			9576			9585			9594			9603			9612		
GTG	GCC	CCC	AGG	ATC	CGC	ATC	GTC	CCC	CCG	GCC	TCG	TTC	ACC	TGG	GTG	GCG	ACC

V	A	P	R	I	R	I	V	P	P	A	S	F	T	W	V	A	T
W	P	P	G	S	A	S	S	P	R	P	R	S	P	G	W	R	P
G	P	Q	D	P	H	R	P	P	G	L	V	H	L	G	G	D	L

E	A	E	P	T	V	P	R	D	L	L	V	V	Y	E	D	G	N
R	P	R	L	H	*	R	G	T	W	C	C	S	T	N	T	V	T
E	R	G	*	T	D	G	A	P	G	A	A	R	R	I	R	*	R

AAG	AGC	CGG	AGT	CCA	CAG	TGG	CCG	GCC	AGG	TCG	TCG	TGC	TGC	ATA	AGC	AGT	GGC
9621			9630			9639			9648			9657			9666		
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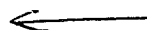
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L	G	L	R	C	H	R	P	V	Q	Q	H	D	V	F	V	T	V

L	Q	D	L	N	H	R	L	H	R	R	V	N	E	L	R	F	A
*	S	T	S	T	T	G	C	I	G	A	S	T	R	W	V	S	P
E	V	P	R	P	Q	A	A	S	A	P	P	R	E	G	S	P	L

AAG	TTG	ACC	AGC	TCC	AAC	ACG	GCG	TCT	ACG	GCC	GCC	TGC	AAG	AGG	TCT	GCC	TTC
9675			9684			9693			9702			9711			9720		
TTC	AAC	TGG	TCG	AGG	TTG	TGC	CGC	AGA	TGC	CGG	CGG	ACG	TTC	TCC	AGA	CGG	AAG

F	N	W	S	R	L	C	R	R	C	R	R	T	F	S	R	R	K
S	T	G	R	G	C	A	A	D	A	G	G	R	S	P	D	G	R
Q	L	V	E	V	V	P	Q	M	P	A	D	V	L	Q	T	E	G

C	V	A	V	V	(M)	P	R	R	G	P	T	N	R	D	A	T	E
V	S	R	W	W	W	Q	V	G	G	P	P	T	G	T	R	L	R



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C L G G G G N S A A R P H E P G C D
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CGT GTC TGG CGG TGG TGG TAA CCT GCG GCG GGC CCC CAC AAG GCC AGG CGT CAG
    9729          9738          9747          9756          9765          9774
GCA CAG ACC GCC ACC ACC ATT GGA CGC CGC CCG GGG GTG TTC CGG TCC GCA GTC
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H R P P P P L D A A R G C S G P Q S
T D R H H H W T P P G G V P V R S L

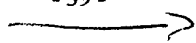
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R E Q G C D S W Y P Q T G G A P A S
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    9783          9792          9801          9810          9819          9828
TCT TTC TTG TCC ACA GTC ACT CCA GTA TGG CTG CGT TCC GCC GGC GGG GGC ACT
---
S F L S T V T P V W L R S A G G G T
L S C P Q S L Q Y G C V P P A G A L
F L V H S H S S M A A F R R R G H S

S H * D D N M T R V A K * S I H * L
R T D T T M * R V F Q K R L F T S F
A L T L R * E D Y S S S E L F H A L
---
GCG CTC ACA GTC AGC AGT AAG TAG CAT GCT TGA CGA AAG ATT CTT TAC ACG ATT
    9837          9846          9855          9864          9873          9882
CGC GAG TGT CAG TCG TCA TTC ATC GTA CGA ACT GCT TTC TAA GAA ATG TGC TAA
---
R E C Q S S F I V R T A F * E M C *
A S V S R H S S Y E L L S K K C A K
R V S V V I H R T N C F L R N V L K

I P P E S R M P A T L R S A D A * W
F R R S R G C Q R Q * D R L T P R G
S D A A G V A N A S N T E F R R G V
---
TCT TAG CCG CCG AGG CTG GCG TAA CCG CGA CAA TCA GAG CTT CGC AGC CGG ATG
    9891          9900          9909          9918          9927          9936
AGA ATC GGC GGC TCC GAC CGC ATT GGC GCT GTT AGT CTC GAA GCG TCG GCC TAC
---
R I G G S D R I G A V S L E A S A Y
E S A A P T A L A L L V S K R R P T
N R R L R P H W R C * S R S V G L P

F S Q V P S P H Q F C P A E N P R I
S R S S L H P I N S A P R R M R A F
L V V P C T L S T P L L A G * E P S
---
GTC TTG CTG ACC TGT CCA CTC CCT ACA ACC TTC GTC CCG CGG AGT AAG CCC GCT
    9945          9954          9963          9972          9981          9990
CAG AAC GAC TGG ACA GGT GAG GGA TGT TGG AAG CAG GGC GCC TCA TTC GGG CGA
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Q N D W T G E G C W K Q G A S F G R
R T T G Q V R D V G S R A P H S G E
E R L D R * G (M) L E A G R L I R A N

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X9

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H G P A S R D R R R R G G P P R R H
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TAC TGG GCC ACG ACT GGA TAG CGC CGC GGC AGA GGG AGG TCC TCC AGC TGC CAC
    9999      10008      10017      10026      10035      10044
ATG ACC CGG TGC TGA CCT ATC GCG GCG CCG TCT CCC TCC AGG AGG TCG ACG GTG
-----
M T R C * P I A A P S P S R R S T V
* P G A D L S R R R L P P G G R R W
D P V L T Y R G A V S L Q E V D G G
-----
Y R G P S Y R K L F P V Q E K G L A
I A G Q R I G K * S R C R N K G S P
F L A R A F V K E P V A G T R E R P
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CTT ATC GCG GGA CCG CTT ATG GAA AAG TCC TTG CCG TGG ACA AGA AAG GGC TCC
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GAA TAG CGC CCT GGC GAA TAC CTT TTC AGG AAC GGC ACC TGT TCT TTC CCG AGG
-----
E * R P G E Y L F R N G T C S F P R
N S A L A N T F S G T A P V L S R G
I A P W R I P F Q E R H L F F P E G
-----
A H S A G R H R R P H P D S E P G V
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CGC CGC ACC CTG CGC GGC GCT ACG GCT GCC CCC ACG CCC AGT GAA AGG CCT GGC
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-----
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A E G L A F R Y A A R P A P E M P G
-----
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G G S V A C T S T R T S P L G T A L
G A R S P A R R R V L P R C A P R W
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A R P R R R T S T Y E W T A S R S P
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 P P E T A H V D V R V D G K P V A S
 E G Q H G V P L D V R A P D P C Q R
 R G R T V S R S T W V H R T P A S G
 G G G P S R G P P G C T G P R P V A

 CGG AGG GGG ACC ACT GGC TGG CCC TCC AGG TGT GCA CGG CCC AGC CCC GTG ACG
 10269 10278 10287 10296 10305 10314
 GCC TCC CCC TGG TGA CCG ACC GGG AGG TCC ACA CGT GCC GGG TCG GGG CAC TGC

 A S P W * P T G R S T R A G S G H C
 P P P G D R P G G P H V P G R G T A
 L P L V T D R E V H T C R V G A L P

 A A A V A K H L Q P Q G A Q V L E D
 P P L S R R T S S H S G P R F W N T
 P R C R G G Q P A T A A R G S G T R

 GCC CGC CGT CGC TGG CGG AAC ACC TCG ACA CCG ACG GGC CGG ACT TGG TCA AGC
 10323 10332 10341 10350 10359 10368
 CGG GCG GCA GCG ACC GCC TTG TGG AGC TGT GGC TGC CCG GCC TGA ACC AGT TCG

 R A A A T A L W S C G C P A * T S S
 G R Q R P P C G A V A A R P E P V R
 G G S D R L V E L W L P G L N Q F V

 Q V A H L * R C A G L H A P V G M G
 R C P T S N G A P A S T P R S V W V
 G A R R P T V P L R R P P G P C G Y

 AGG ACG TGC CGC ACC TCA ATG GCC GTC CGC GGC TCC ACC CGG CCC TGT GGG TAT
 10377 10386 10395 10404 10413 10422
 TCC TGC ACG GCG TGG AGT TAC CGG CAG GCG CCG AGG TGG GCC GGG ACA CCC ATA

 S C T A W S Y R Q A P R W A G T P I
 P A R R G V T G R R R G G P G H P Y
 L H G V E L P A G A E V G R D T H T

 R G A P D V V P G G L R L A S P R Q
 A G R Q T W * P A E S D C P L P A S
 R A G S P G S R P R R T A P C L P A

 GGC GCG GGG CGA CCC AGG TGA TGC CCC GGA GGC TCA GCG TCC CGT CTC CCC GCG
 10431 10440 10449 10458 10467 10476
 CCG CGC CCC GCT GGG TCC ACT ACG GGG CCT CCG AGT CGC AGG GCA GAG GGG CGC

 P R P A G S T T G P P S R R A E G R
 R A P L G P L R G L R V A G Q R G A
 A P R W V H Y G A S E S Q G R G A L

 R G G P V P G R G D G G F E P Q V Q
 D G V R F Q V A V T A V S S P S S R
 T A W G S S S R S R R W R V R A P G

 ACA GCG GGT GGG CCT TGA CCT GGC GCT GGC AGC GGT GGC TTG AGC CCG ACC TGG

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	10485		10494		10503		10512		10521		10530						
TGT	CGC	CCA	CCC	GGA	ACT	GGA	CCG	CGA	CCG	TCG	CCA	CCG	AAC	TCG	GGC	TGG	ACC

C	R	P	P	G	T	G	P	R	P	S	P	P	N	S	G	W	T
V	A	H	P	E	L	D	R	D	R	R	H	R	T	R	A	G	P
S	P	T	R	N	W	T	A	T	V	A	T	E	L	G	L	D	L

G	R	Q	R	D	P	R	A	A	V	E	L	R	E	E	R	G	Q
V	E	S	A	I	P	A	P	Q	*	R	W	G	S	K	A	V	R
S	R	A	P	S	R	P	P	S	S	G	G	A	A	R	R	S	G

ACT	GGA	GCG	ACC	GCT	AGC	CCC	GCC	CGA	CGA	TGG	AGG	TCG	GCG	AGA	AGC	GCT	GGG
	10539			10548			10557			10566			10575			10584	
TGA	CCT	CGC	TGG	CGA	TCG	GGG	CGG	GCT	GCT	ACC	TCC	AGC	CGC	TCT	TCG	CGA	CCC

*	P	R	W	R	S	G	R	A	A	T	S	S	R	S	S	R	P
D	L	A	G	D	R	G	G	L	L	P	P	A	A	L	R	D	P
T	S	L	A	I	G	A	G	C	Y	L	Q	P	L	F	A	T	L

E	A	V	Q	G	G	I	Q	D	R	A	H	D	A	H	V	D	I
S	R	S	R	G	A	S	R	I	V	H	M	T	P	M	F	M	*
A	G	R	G	A	R	R	D	S	*	T	C	P	R	C	S	C	R

ACG	AGG	CGC	TGG	ACG	GGC	GGC	TAG	ACT	AGT	GCA	CGT	ACC	AGC	CGT	ACT	TGT	AGA
	10593			10602			10611			10620			10629			10638	
TGC	TCC	GCG	ACC	TGC	CCG	CCG	ATC	TGA	TCA	CGT	GCA	TGG	TCG	GCA	TGA	ACA	TCT

C	S	A	T	C	P	P	I	*	S	R	A	W	S	A	*	T	S
A	P	R	P	A	R	R	S	D	H	V	H	G	R	H	E	H	L
L	R	D	L	P	A	D	L	I	T	C	M	V	G	M	N	I	Y

A	R	T	G	Q	V	L	E	G	V	P	R	V	Q	D	P	Q	D
P	A	R	A	R	F	W	N	V	*	R	G	F	R	T	P	S	T
H	R	A	H	G	S	G	T	*	R	G	A	S	G	P	R	A	P

TAC	CGC	GCG	CAC	GGG	ACT	TGG	TCA	AGT	GGA	TGG	CCG	GCT	TGG	ACC	AGC	CCG	ACC
	10647			10656			10665			10674			10683			10692	
ATG	GCG	CGC	GTG	CCC	TGA	ACC	AGT	TCA	CCT	ACC	GGC	CGA	ACC	TGG	TCG	GGC	TGG

M	A	R	V	P	*	T	S	S	P	T	G	R	T	W	S	G	W
W	R	A	C	P	E	P	V	H	L	P	A	E	P	G	R	A	G
G	A	R	A	L	N	Q	F	T	Y	R	P	N	L	V	G	L	V

P	D	D	P	L	S	V	G	R	G	R	Q	D	D	R	G	V	V
R	I	M	R	S	R	C	G	E	V	G	S	T	M	A	D	W	W
G	S	*	G	P	A	V	G	R	S	G	A	P	*	R	T	G	G

AGG	CCT	AGT	AGG	CCC	TCG	CTG	TGG	GGA	GCT	GGG	GCG	ACC	AGT	AGC	GCA	GGG	TGG
	10701			10710			10719			10728			10737			10746	
TCC	GGA	TCA	TCC	GGG	AGC	GAC	ACC	CCT	CGA	CCC	CGC	TGG	TCA	TCG	CGT	CCC	ACC

S	G	S	S	G	S	D	T	P	R	P	R	W	S	S	R	P	T
P	D	H	P	G	A	T	P	L	D	P	A	G	H	R	V	P	P
R	I	I	R	E	R	H	P	S	T	P	L	V	I	A	S	H	H

V	R	-G	P	V	V	R	Q	F	S	V	A	V	Q	G	Q	R	L
*	E	G	Q	C	S	G	S	S	P	S	P	*	R	D	K	V	S

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S	S	A	R	A	R	G	A	P	L	L	R	S	G	T	R	S	P

TGA	TGA	GCG	GGA	CCG	TGC	TGG	GCG	ACC	TTC	CTC	TGC	CGA	TGG	ACA	GGA	ACT	GCC
		10755			10764			10773			10782			10791			10800
ACT	ACT	CGC	CCT	GGC	ACG	ACC	CGC	TGG	AAG	GAG	ACG	GCT	ACC	TGT	CCT	TGA	CGG

T	T	R	P	G	T	T	R	W	K	E	T	A	T	C	P	*	R
L	L	A	L	A	R	P	A	G	R	R	R	L	P	V	L	D	G
Y	S	P	W	H	D	P	L	E	G	D	G	Y	L	S	L	T	E

D	P	L	L	G	T	L	H	D	I	Q	Q	A	R	V	A	V	L
T	R	S	C	V	R	S	T	T	S	R	S	R	A	S	P	S	S
P	G	P	A	S	G	H	P	P	R	D	A	A	R	P	R	R	R

TCC	AGG	CCC	TCG	TCT	GGG	CAC	TCC	ACC	AGC	TAG	ACG	ACG	CGC	GCC	TGC	CGC	TGC
		10809			10818			10827			10836			10845			10854
AGG	TCC	GGG	AGC	AGA	CCC	GTG	AGG	TGG	TCG	ATC	TGC	TGC	GCG	CGG	ACG	GCG	ACG

R	S	G	S	R	P	V	R	W	S	I	C	C	A	R	T	A	T
G	P	G	A	D	P	*	G	G	R	S	A	A	R	G	R	R	R
V	R	E	Q	T	R	E	V	V	D	L	L	R	A	D	G	D	E

V	D	V	V	D	V	A	R	A	E	G	A	G	F	G	G	V	Q
F	T	W	*	T	W	P	G	L	R	A	P	G	S	V	A	W	R
S	R	G	S	R	G	R	G	S	G	R	R	G	R	F	R	G	G

TCT	TGC	AGG	TGA	TGC	AGG	TGC	CGG	GCT	CGG	AGC	GGC	CGG	GGC	TTT	GGC	GGG	TGG
		10863			10872			10881			10890			10899			10908
AGA	ACG	TCC	ACT	ACG	TCC	ACG	GCC	CGA	GCC	TCG	CCG	GCC	CCG	AAA	CCG	CCC	ACC

R	T	S	T	T	S	T	A	R	A	S	P	A	P	K	P	P	T
E	R	P	L	R	P	R	P	E	P	R	R	P	R	N	R	P	P
N	V	H	Y	V	H	G	P	S	L	A	G	P	E	T	A	H	L

V	D	L	R	P	V	G	I	R	Q	V	E	V	L	L	P	V	V
Y	T	S	G	R	Y	V	S	G	S	C	K	L	W	S	P	C	S
T	R	R	A	A	T	C	R	D	A	A	S	*	G	P	P	A	R

ACA	TGC	AGC	TCG	GCG	CCA	TGT	GGC	TAG	GCG	ACG	TGA	AGT	TGG	TCC	TCC	CCG	TGC
		10917			10926			10935			10944			10953			10962
TGT	ACG	TCG	AGC	CGC	GGT	ACA	CCG	ATC	CGC	TGC	ACT	TCA	ACC	AGG	AGG	GGC	ACG

C	T	S	S	R	G	T	P	I	R	C	T	S	T	R	R	G	T
V	R	R	A	A	V	H	R	S	A	A	L	Q	P	G	G	A	R
Y	V	E	P	R	Y	T	D	P	L	H	F	N	Q	E	G	H	D

Q	Q	R	G	S	E	L	P	L	E	H	L	Q	H	R	V	Q	H
R	S	A	A	A	K	W	R	F	S	T	S	S	T	G	S	R	T
G	A	P	P	R	K	G	A	S	A	R	P	A	P	A	P	G	P

TGG	ACG	ACC	GCC	GGC	GAA	AGG	TCG	CCT	TCG	AGC	ACC	TCG	ACC	ACG	GCC	TGG	ACC
		10971			10980			10989			10998			11007			11016
ACC	TGC	TGG	CGG	CCG	CTT	TCC	AGC	GGA	AGC	TCG	TGG	AGC	TGG	TGC	CGG	ACC	TGG

T	C	W	R	P	L	S	S	G	S	S	W	S	W	C	R	T	W
P	A	G	G	R	F	P	A	E	A	R	G	A	G	A	G	P	G
L	L	A	A	A	F	Q	R	K	L	V	E	L	V	P	D	L	V

P G S E R V R G A L C Q P D L F G R
 R D Q S G S E G R L A S R I * S G A
 A T R V G P S E G C P V A S R P V R

 ACG CCA GGA CTG AGG GCC TGA GAG GGG CGT TCC GTG ACG CCT AGA TCC TTG GGC
 11025 11034 11043 11052 11061 11070
 TGC GGT CCT GAC TCC CGG ACT CTC CCC GCA AGG CAC TGC GGA TCT AGG AAC CCG

 C G P D S R T L P A R H C G S R N P
 A V L T P G L S P Q G T A D L G T R
 R S * L P D S P R K A L R I * E P A

 V Y R T S P R I G R C R R H T R S A
 S T D P P H D S G E A D G I H G P L
 P R I P H I T P D R Q M A S T D P F

 GCC TGC ATA GCC CAC CTA CCA GCC TAG GGA GAC GTA GCG GCT ACA CAG GCC CTT
 11079 11088 11097 11106 11115 11124
 CGG ACG TAT CGG GTG GAT GGT CGG ATC CCT CTG CAT CGC CGA TGT GTC CGG GAA

 R T Y R V D G R I P L H R R C V R E
 G R I G W M V G S L C I A D V S G K
 D V S G G W S D P S A S P M C P G S

 R P R L C G T R G S S P I R G R A E
 G H A F A V L G A Q L R S E V G L K
 G T P S P L W D P R F V P N S G S S

 CGG GCA CCC GCT TCC GTT GGT CAG GCC GGA CTT CTG CCC TAA GCT GGG GCT CGA
 11133 11142 11151 11160 11169 11178
 GCC CGT GGG CGA AGG CAA CCA GTC CGG CCT GAA GAC GGG ATT CGA CCC CGA GCT

 A R G R R Q P V R P E D G I R P R A
 P V G E G N Q S G L K T G F D P E L
 P W A K A T S P A * R R D S T P S F

 G T D P G Y S G Q R H A R H G R A A
 A L I Q A M H A K V T R E T V G L L
 R W Y R P W I L R S P A S P S G S C

 AGC GGT CAT AGA CCC GGT ATA CTC GGA ACT GCC ACG CGA GCC ACT GGG GCT CGT
 11187 11196 11205 11214 11223 11232
 TCG CCA GTA TCT GGG CCA TAT GAG CCT TGA CGG TGC GCT CGG TGA CCC CGA GCA

 S P V S G P Y E P * R C A R * P R A
 R Q Y L G H M S L D G A L G D P E Q
 A S I W A I * A L T V R S V T P S S

 R R D * P Q L L R P E A P P L G P A
 A A I E R N S Y G H S L L L F V Q L
 R P S R V T P T A T A * C S S S R S

 CGC GCC GCT AGA GTG CCA ACC TCA TCG GCA CCG AGT CGT CCT CCT TCT GGA CCT
 11241 11250 11259 11268 11277 11286
 GCG CGG CGA TCT CAC GGT TGG AGT AGC CGT GGC TCA GCA GGA GGA AGA CCT GGA

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A R R S H G W S S R G S A G G R P G
R G D L T V G V A V A Q Q E E D L E
A A I S R L E * P W L S R R K T W S

R P R L T F T G P Q A R G A L P V P
E R D S L L H V Q S L G E L W P F Q
S A T P S Y I Y R A S G K W G P S S
-----
CGA GCG CCA GCC TCT CAT TTA CAT GGA CCG ACT CGG GAA GGT CGG TCC CCT TGA
11295 11304 11313 11322 11331 11340
GCT CGC GGT CGG AGA GTA AAT GTA CCT GGC TGA GCC CTT CCA GCC AGG GGA ACT
-----
A R G R R V N V P G * A L P A R G T
L A V G E * M Y L A E P F Q P G E L
S R S E S K C T W L S P S S Q G N W

G R P S I S R R W F * Q F R L R F I
D E H L F R D D G S D S S D C G S Y
T R T S F D I T A L I V P I A A P I
-----
CCA GGA GCA CCT CTT TAG CTA GCA GCG GTC TTA GTG ACC TTA GCG TCG GCC TTA
11349 11358 11367 11376 11385 11394
GGT CCT CGT GGA GAA ATC GAT CGT CGC CAG AAT CAC TGG AAT CGC AGC CGG AAT
-----
G P R G E I D R R Q N H W N R S R N
V L V E K S I V A R I T G I A A G I
S S W R N R S S P E S L E S Q P E Y

A F D P G R I L T H D K C A R L P *
P L T Q G G Y S R T T R A H G L L D
H C L R A G T H A H P G Q M G * S T
-----
TAC CGT TTC AGA CCG GGG GCA TAC TCG CAC ACC AGG AAC GTA CGG GAT TCT CCA
11403 11412 11421 11430 11439 11448
ATG GCA AAG TCT GGC CCC CGT ATG AGC GTG TGG TCC TTG CAT GCC CTA AGA GGT
-----
M A K S G P R M S V W S L H A L R G
W Q S L A P V * A C G P C M P * E V
G K V W P P Y E R V V L A C P K R S

G V C R T D L R R L A G G S F * S S
D S A D L I L A G F P A V V S S H L
M R R M S Y * P A S P R W W Q V I F
-----
GTA GGC TGC GTA GCT CAT AGT TCC GCG GCT TCC CGC GGT GGT GAC TTG ATA CTT
11457 11466 11475 11484 11493 11502
CAT CCG ACG CAT CGA GTA TCA AGG CGC CGA AGG GCG CCA CCA CTG AAC TAT GAA
-----
H P T H R V S R R R R A P P L N Y E
I R R I E Y Q G A E G R H H * T M K
S D A S S I K A P K G A T T E L * R

T L A I G G M R R I P G P C * E D Q
R S P S V V W A V F P D Q V N S M K
V H P R Y W G H S S H T R S M V * R
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CTG CAC TCC CGC TAT GGT GGG TAC GCT GCT TAC CCA GGA CCT GTA ATG AGT AGA

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11511	11520	11529	11538	11547	11556
GAC GTG AGG GCG ATA CCA CCC ATG CGA CGA ATG GGT CCT GGA CAT TAC TCA TCT					
D V R A I P P M R R M G P G H Y S S					
T * G R Y H P C D E W V L D I T H L					
R E G D T T H A T N G S W T L L I L					
D D * R M * P R T P A G Q H R R S D					
I M K D C R R G P Q P A K T G G A T					
S * R I A D V A P N P R R P A A Q Q					
ACT AGT AGA ATA GCG TAG ATG CCG GCC CAA CCC CGC GGA ACC ACG GCG GAC GAC					
11565 11574 11583 11592 11601 11610					
TGA TCA TCT TAT CGC ATC TAC GGC CGG GTT GGG GCG CCT TGG TGC CGC CTG CTG					
* S S Y R I Y G R V G A P W C R L L					
D H L I A S T A G L G R L G A A C C					
I I L S H L R P G W G A L V P P A V					
H A P G A S A H A L R I L R G T G P					
T L L A R R P T P L A S L A A R A R					
R S C P G G L R P C P P Y P P G H G					
AGC ACT CGT CCC GGG CGG CTC CGC ACC CGT TCC GCC TAT TCC GCC GGG CAC GGG					
11619 11628 11637 11646 11655 11664					
TCG TGA GCA GGG CCC GCC GAG GCG TGG GCA AGG CGG ATA AGG CGG CCC GTG CCC					
S * A G P A E A W A R R I R R P V P					
R E Q G P P R R G Q G G * G G P C P					
V S R A R R G V G K A D K A A R A R					
T H V A I V G S P V R S R T R R A G					
H T C P <u>L</u> * A P L F A A V P G G P A					
T H A R C D R R F S R P * P D A Q R					
CCA CAC ACG TGC CGT TAG TGC GGC CTT CCT TGC GCC GAT GCC CAG GCG GAC CGC					
11673 11682 11691 11700 11709 11718					
GGT GTG TGC ACG GCA ATC ACG CCG GAA GGA ACG CGG CTA CGG GTC CGC CTG GCG					
G V C T A I T P E G T R L R V R L A					
V C A R Q S R R K E R G Y G S A W R					
C V H G N H A G R N A A T G P P G A					
G R G P A P S A G R L I R C G P P R					
V A G L R R H H V E F F G A D R R G					
W R A W A G T I C R S S D P M G A A					
GGT GGC GCG GGT CCG CGG CCA CTA CGT GGA GCT TCT TAG GCC GTA GGG CCG CCG					
11727 11736 11745 11754 11763 11772					
CCA CCG CGC CCA GGC GCC GGT GAT GCA CCT CGA AGA ATC CGG CAT CCC GGC GGC					
P P R P G A G D A P R R I R H P G G					
H R A Q A P V M H L E E S G I P A A					
T A P R R R * C T S K N P A S R R P					
G A R F R P A D G A K T P R G H A G					
A Q G S V P R T V Q K P R G A M R A					

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P R G Q F P A R * R S Q D A P W A R
---
GCC GGA CGG GAC TTT GCC CCG CGC AGT GGA CGA AAC CAG CCG GCC GGT ACG CGC
      11781          11790          11799          11808          11817          11826
CGG CCT GCC CTG AAA CGG GGC GCG TCA CCT GCT TTG GTC GGC CGG CCA TGC GCG
---
R P A L K R G A S P A L V G R P C A
G L P * N G A R H L L W S A G H A R
A C P E T G R V T C F G R P A M R A
---
R L * R I T A P Y I F V R K S L S E
G Y D V S R Q P I Y S F G N R Y V K
G T I L P D N R S I H F G T E I F K
---
GGG GCA TTA GTT GCC TAG CAA CGC CCT ATA TAC TTT TGG GCA AAG CTA TTT GAA
      11835          11844          11853          11862          11871          11880
CCC CGT AAT CAA CGG ATC GTT GCG GGA TAT ATG AAA ACC CGT TTC GAT AAA CTT
---
P R N Q R I V A G Y M K T R F D K L
P V I N G S L R D I * K P V S I N F
P * S T D R C G I Y E N P F R * T F
---
C Q R C A R K T W S P S S P A R * R
A N A V H A N Q G A R R R L R G S G
R M P S M R T K D L E A V F A G A V
---
AGC GTA ACC GCT GTA CGC GCA AAA CAG GTC GAG CCG CTG CTT CCG CGG GCG ATG
      11889          11898          11907          11916          11925          11934
TCG CAT TGG CGA CAT GCG CGT TTT GTC CAG CTC GGC GAC GAA GGC GCC CGC TAC
---
S H W R H A R F V Q L G D E G A R Y
R I G D M R V L S S S A T K A P A T
A L A T C A F C P A R R R R R P L P
---
G H C H S L Q R T G A S G Q P A V G
G T V T A * N V R E Q L V R P P W V
A R S L P E I S A N R C F G P P G C
---
GCG GGC ACT GTC ACC GAG TTA ACT GCG CAA GGA CGT CTT GGG ACC CCC CGG TGT
      11943          11952          11961          11970          11979          11988
CGC CCG TGA CAG TGG CTC AAT TGA CGC GTT CCT GCA GAA CCC TGG GGG GCC ACA
---
R P * Q W L N * R V P A E P W G A T
A R D S G S I D A F L Q N P G G P H
P V T V A Q L T R S C R T L G G H T
---
R I E P N G A R L G Q R R P R H P Q
E S R L I G L A Y A K A V L A T R N
R P D * S E W R T P R P S S P P A T
---
GGA GCC TAG AGT CCT AAG GGT CGC GCA TCC GGA ACC GCT GCT CCC GCC ACG CCA
      11997          12006          12015          12024          12033          12042
CCT CGG ATC TCA GGA TTC CCA GCG CGT AGG CCT TGG CGA CGA GGG CGG TGC GGT
---
P R I S G F P A R R P W R R G R C G
L G S Q D S Q R V G L G D E G G A V
S D L R I P S A * A L A T R A V R L

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      A G P L A G D D Q Q R P V R G G P P
      P V R F R E M M K S V H Y E V G Q R
      P C G S A S W * R A S T T S S G R A
-----
ACC CGT GGG CCT TCG CGA GGT AGT AGA ACG ACT GCA CCA TGA GCT GGG GGA CCG
      12051          12060          12069          12078          12087          12096
TGG GCA CCC GGA AGC GCT CCA TCA TCT TGC TGA CGT GGT ACT CGA CCC CCT GGC
-----
      W A P G S A P S S C * R G T R P P G
      G H P E A L H H L A D V V L D P L A
      G T R K R S I I L L T W Y S T P W R
-----
      Q P L A Q Q R H L H H A * R R R H T
      S L Y L K S A I C T T R E G A A I R
      A S T S S A P S A P P A S V Q P S A
-----
CCG ACT CCA TCT CGA ACG ACC GCT ACG TCC ACC ACG CGA GTG GAC GCC GCT ACG
      12105          12114          12123          12132          12141          12150
GGC TGA GGT AGA GCT TGC TGG CGA TGC AGG TGG TGC GCT CAC CTG CGG CGA TGC
-----
      G * G R A C W R C R W C A H L R R C
      A E V E L A G D A G G A L T C G D A
      L R * S L L A M Q V V R S P A A M R
-----
      R H D Q R G P Q I L D H P R N E G P
      E I I K A D L S S L T T P A T R V Q
      N S S R P T W A P Y P R P P P E * R
-----
CAA GCT ACT AGA ACC GCA GGT CCG ACC TAT TCC AGC ACC CCC GCC AAG AGT GGA
      12159          12168          12177          12186          12195          12204
GTT CGA TGA TCT TGG CGT CCA GGC TGG ATA AGG TCG TGG GGG CGG TTC TCA CCT
-----
      V R * S W R P G W I R S W G R F S P
      F D D L G V Q A G * G R G G G S H L
      S M I L A S R L D K V V G A V L T W
-----
      V G Q P F L A S L H R S R R P P V L
      Y E R P S S H Q S T D L A G P R S W
      T S G P P L T S L P T S L A P A P G
-----
CCA TGA GGG ACC CCC TTC TCA CGA CTC TCC ACA GCT CTC GCG GCC CCG CCC TGG
      12213          12222          12231          12240          12249          12258
GGT ACT CCC TGG GGG AAG AGT GCT GAG AGG TGT CGA GAG CGC CGG GGC GGG ACC
-----
      G T P W G K S A E R C R E R R G G T
      V L P G G R V L R G V E S A G A G P
      Y S L G E E C * E V S R A P G R D Q
-----
      C R R S V G K Y G V S T * W C Y H V
      A G A A S E K T G L V R E G A T T S
      P V P P Q S R Q V W C E N V L L L P
-----
TCC GTG GCC GCC GAC TGA GGA AAC ATG GGT TGT GAG CAA GTG GTC GTC ATC ACC
      12267          12276          12285          12294          12303          12312
AGG CAC CGG CGG CTG ACT CCT TTG TAC CCA ACA CTC GTT CAC CAG CAG TAG TGG
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R H R R L T P L Y P T L V H Q Q * W
G T G G * L L C T Q H S F T S S S G
A P A A D S F V P N T R S P A V V D

K T * T G T A T R P C Q T T R A F P
K R E P A P R P E Q V N P Q E L L H
S E N L H R D R N K S M P N N S C I

TGA AAG CAA GTC CAC GGC CAG CGC CAA GAA CCT GTA ACC CAA CAA GCT CGT TTA
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T F V Q V P V A V L G H W V V R A N
L S F R C R S R F L D I G L F E Q M
F R S G A G R G S W T L G C S S K W

A P K P P R R G A S R V E R D H R D
P P N R P G A A P Q G S K V I M A T
P R T E P A Q P R S V P S * S * P P

CCC CGC CCA AAG CCC CCG GAC GCC GGC CGA CTG GCC TGA AGT GCT AGT ACC GCC
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G A G F G G L R P A D R T S R S W R
G R V S G A C G R L T G L H D H G G
G G F R G P A A G * P D F T I M A V

A L P Q S P E T T S A S R P T V A A
R L L S R R S P L Q P A G P H L P R
G C S A A V A R Y N L R E P T Y R G

AGG CGT TCT CCG ACG CTG CCG AGC CAT CAA CTC CGC GAG GCC CCA CAT TGC CGG
12429 12438 12447 12456 12465 12474
TCC GCA AGA GGC TGC GAC GGC TCG GTA GTT GAG GCG CTC CGG GGT GTA ACG GCC

S A R G C D G S V V E A L R G V T A
P Q E A A T A R * L R R S G V * R P
R K R L R R L G S * G A P G C N G R

D R A T A H G N R G R F R P Y C A D
M G R Q P T G T G A A F G R T V P M
C G A S H R A R E P R S V A P L L C

CGT AGG GCG CGA CAC CGC ACG GGC AAG GCC GGC GCT TTG GCG CCC ATT GTC CGT
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A S R A V A C P F R P R N R G * Q A
H P A L W R A R S G R E T A G N R H
I P R C G V P V P A A K P R V T G I

P R G S F E R S T V R H Q R R V P G
Q G A P F S A P R * A T N D A S P V
R A P R F V R P V D R P T T P P R S

AGA CCG GCC GGC CTT TTG AGC GCC CTG CAG TGC GCC ACA ACA GCC GCC TGC CCT

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S G R P E N S R D V T R C C R R T G
L A G R K T R G T S R G V V G G R D
W P A G K L A G R H A V L S A D G T

S D H A G G V P S S I E K C T G T K
R I M P A A S L V L F K R V R A R R
G F * P R R R C S * F N G * V H G D

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P E S W A P P T G L E I S L H V P V
P N H G R R R Q D * K F P Y T C P S
R I M G A A D R T R N F L T R A R L

D E V G A F R H R P V L P S P M F I
I R S A Q S D T A H F S H L R C S F
* G R R R R I Q P T S R T S V A H F

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TTA TCC TCG ACG CCT GCG AAT CTG TGG CGT GGA ACG AGT GGA GAC GGC ATG AAA

L S S T P A N L W R G T S G D G (M) K X10
Y P R R L R I C G V E R V E T A * K
I L D A C E S V A W N E W R R H E N

S T S C G V Q L R S V T R S P R P P
R H A A A S R Y G P Y P A P R A R R
D I H Q L R G T V Q I R H P V P A A

TAG CTA CAC GAC GTC GGC TGG ACA TTG GAC CTA TGC CAC GCC CTG CCC GCG CCG
12699 12708 12717 12726 12735 12744
ATC GAT GTG CTG CAG CCG ACC TGT AAC CTG GAT ACG GTG CGG GAC GGG CGC GGC

I D V L Q P T C N L D T V R D G R G
S M C C S R P V T W I R C G T G A A
R C A A A D L * P G Y G A G R A R R

I K V Q T G G S G M R S N L I S C R
F K * R P G G P A W G P I * Y A A G
S N E G P D G R L G D Q F E I H Q V

CCT TAA AAG TGG ACC CAG GGG GGC CTC GGG TAG GAC CTT AAG TTA TAC GAC GTG
12753 12762 12771 12780 12789 12798
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E F S P G S P R S P S W N S I C C T
N F H L G P P G A H P G I Q Y A A P

Y G P F T R P R C * * G C K T S Y R
T G P F P A R G A N D G A S Q R T G

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Q V R S L H A A Q M I V R V K D L V

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 L Y P G K V R G L H Y H P H F V E Y
 C T R E R C A A C I I T R T L S S T
 V P G K G A R P A L S P A L C R V P

 S N T S P E P T S I V L S S A S S G
 A T R R P S P R A S * W P R R R L G
 Q Q E D L A R A H Q D G L V V G F V

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 C C S S R A R A C * S P R T T P K T
 A V R R G L G R A D H Q G R R R R P

 L Q L S S N M W T E R P T Q V L V G
 W S C L P I * G R R A R P R C W S A
 G V A F L F E D V D R A P D A G P R

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 G R G H A L R P R H L V P D V H R H

 S V L G Q S S H S G G S T * T S G S
 A * W A R P R I R D A A P E P R A A
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 M L T K P W D E C D P P L V Q V E P
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 A H Q A L G R M R S A A G S G R A A

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 L P H T L E R P * G S P W S A P G G
 C R T R W S A R E G R R G R R R G V
 A A H A G A P (V) R V A V V G A G G F X11

 D A R G D G P C Q T G R G N G H R T
 T P V A T V R A S P E A A M G T V R
 R R C P R * G P V P N R P W E R S A

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 A L * S S A R R L P G K S T S T L A
 H W S R P P V G Y R G R R R A P * R

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 C Q L R G G T P * R P L R R A G Q R
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 G L P L P A L L G P A A P R R R P P
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 S V T S L V R A S R R S Q S H S R K
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 E T V D K T R A L L R D W E W D R F

 D L D A G D G R A G L Q V G G V A P
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 R G S * C W R R A C G A P C G R R G

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 S G P R P R P A R R P G D P R G G P

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 L G D V R V A L R A L A E R R D L P
 C G T * A C P S D R W L K A G T S H
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 H P P Q T A E W R S A S P S H S T P
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CCC GCG CCT GCT GCC AGT CGG ACG CCC TCT AGT CCC TGC GCC AGC CAA GCG CAA
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D E G A G A L V V L E G Q D A F G V
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Q G S A A S T M P Q S L A R L R A S
S A P R R L H * R S A * P G Y G L V

TGA CCG GCC TGC GGC GTC TAC AGT AGC CGA CCG AGT CCC GGG CAT CGG CTC GTG
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L A G R R R C H R L A Q G P * P S T
W P D A A D V I G W L R A R S R A L

S S F * S C S R D S S R * R G N G S
V P S D H A R G T V R G D D V T A P
S Q L I M L V V P * E V T M S R Q R

ACT GAC CTC TTA GTA CTC GTG CTG GCC AGT GAG CTG GCA GTA GCT GGC AAC GGC
13779 13788 13797 13806 13815 13824
TGA CTG GAG AAT CAT GAG CAC GAC CGG TCA CTC GAC CGT CAT CGA CCG TTG CCG

* L E N H E H D R S L D R H R P L P
D W R I (M) S T T G H S T V I D R C R
T G E S * A R P V T R P S S T V A G

R R C C R T A A R A R G R V A P G *
D A V V G L Q Q G H E V E S R L G E

G1

I	Q	S	L	V	S	N	S	G	T	S	S	R	P	G	C	A	R
CTA	GAC	GCT	GTT	GTG	GCT	CAA	CGA	CGG	GCA	CGA	GCT	GGA	GCC	TGG	CGT	CCG	GGA
	13833			13842			13851			13860		13869			13878		
GAT	CTG	CGA	CAA	CAC	CGA	GTT	GCT	GCC	CGT	GCT	CGA	CCT	CGG	ACC	GCA	GGC	CCT
D	L	R	Q	H	R	V	A	A	R	A	R	P	R	T	A	G	P
I	C	D	N	T	E	L	L	P	V	L	D	L	G	P	Q	A	L
S	A	T	T	P	S	C	C	P	C	S	T	S	D	R	R	P	S
R	R	T	G	A	S	G	R	R	P	R	A	T	R	E	A	P	A
G	A	H	E	R	P	G	A	A	L	V	H	R	V	N	R	Q	L
V	P	T	N	G	R	V	R	P	S	S	T	G	Y	T	G	S	S
GTG	GCC	GCA	CAA	GGG	CGC	CTG	GGC	GCC	GCT	CCT	GCA	CGG	CAT	GCA	AGG	CGA	CCT
	13887			13896			13905			13914		13923			13932		
CAC	CGG	CGT	GTT	CCC	GCG	GAC	CCG	CGG	CGA	GGA	CGT	GCC	GTA	CGT	TCC	GCT	GGA
H	R	R	V	P	A	D	P	R	R	G	R	A	V	R	S	A	G
T	G	V	F	P	R	T	R	G	E	D	V	P	Y	V	P	L	E
P	A	C	S	R	G	P	A	A	R	T	C	R	T	F	R	W	S
P	A	S	S	A	R	R	N	R	V	P	A	A	A	G	C	R	R
Q	H	A	A	R	G	A	T	A	F	Q	H	L	Q	A	V	G	G
S	T	R	Q	E	G	P	P	Q	S	S	T	C	S	R	W	V	A
CGA	CCA	CGC	GAC	GAG	CGG	GCC	GCC	AAC	GCT	TGA	CCA	CGT	CGA	CGC	GGT	GTG	GCG
	13941			13950			13959			13968		13977			13986		
GCT	GGT	GCG	CTG	CTC	GCC	CGG	CGG	TTG	CGA	ACT	GGT	GCA	GCT	GCG	CCA	CAC	CGC
A	G	A	L	L	A	R	R	L	R	T	G	A	A	A	P	H	R
L	V	R	C	S	P	G	G	C	E	L	V	Q	L	R	H	T	A
W	C	A	A	R	P	A	V	A	N	W	C	S	C	A	T	P	P
S	R	G	*	T	R	R	P	S	R	S	G	T	W	G	*	G	S
V	E	A	E	H	V	A	L	A	V	A	V	P	G	A	E	V	A
S	K	P	R	M	Y	P	S	P	*	P	*	R	D	L	R	L	R
GCT	GAA	GCC	GGA	GTA	CAT	GCC	GCT	CCC	GAT	GCC	GAT	GGC	CAG	GTC	GGA	GTT	GGC
	13995			14004			14013			14022		14031			14040		
CGA	CTT	CGG	CCT	CAT	GTA	CGG	CGA	GGG	CTA	CGG	CTA	CCG	GTC	CAG	CCT	CAA	CCG
R	L	R	P	H	V	R	R	G	L	R	L	P	V	Q	P	Q	P
D	F	G	L	M	Y	G	E	G	Y	G	Y	R	S	S	L	N	R
T	S	A	S	C	T	A	R	A	T	A	T	G	P	A	S	T	A
W	P	P	G	G	A	R	C	P	R	R	W	*	R	G	P	R	G
G	H	R	V	V	Q	A	A	L	D	G	G	D	G	A	Q	D	V
E	M	A	S	W	R	R	P	L	T	A	A	M	V	P	R	T	S
GAG	GTA	CCG	CCT	GGT	GGA	CGC	GCC	GTT	CCA	GCG	GCG	GTA	GTG	GCC	GGA	CCA	GCT
	14049			14058			14067			14076		14085			14094		
CTC	CAT	GGC	GGA	CCA	CCT	GCG	CGG	CAA	GGT	CGC	CGC	CAT	CAC	CGG	CCT	GGT	CGA
L	H	G	G	P	P	A	R	Q	G	R	R	H	H	R	P	G	R
S	M	A	D	H	L	R	G	K	V	A	A	I	T	G	L	V	D
P	W	R	T	T	C	A	A	R	S	P	P	S	P	A	W	S	T

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R G R R G P R P C R C C R R C G A P
E A G A V Q D H V D A A V V A G Q Q
R P G P S R T T S M P L L S P V R S
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14103 14112 14121 14130 14139 14148
CCT CGG CCC CGG CGA CCT GGT CGT GGA CAT CGG CAG CAA CGA CGG CAC CCT GCT
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L G P G D L V V D I G S N D G T L L
S A P A T W S W T S A A T T A P C W
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R G V G G V P G A Q D S H V G G G
A A * G A S P G R R T P T S G A A V
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14157 14166 14175 14184 14193 14202
GGC GGC CTA CCC CGC CGA CGG GCC CCG CCT GGT CGG AGT GGA CCC CGC CGC CAC
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G G L P R R R A P P G R S G P R R H
A A Y P A D G P R L V G V D P A A T
R P T P P T G P A W S E W T P P P
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R R R T R G A P R R A S G R S R R M
D E G R G V R R A D L Q D G V E E C
T K A A D * G G P T S S I G S K K A
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14211 14220 14229 14238 14247 14256
CGT CTT CGC CGC GTC CTA CCC GCC GGG CGT CGA GCT GAT CCC CGA CTT CTT CGC
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V F A A S Y P P G V E L I P D F F A
S S P R P T R R A S S * S P T S S H
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V V Q E A P A A G L D D G R D R H E
Y S R S P P R R A L T T V E I A I N
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14265 14274 14283 14292 14301 14310
ATA CGA CCT GCT CGG CGG GCG CCG CGC CAA GGT CGT CAC CTC GAT CGC GAT GTT
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I R P A R R A P R Q G R H L D R D V
Y D L L G G R R A K V V T S I A M F
T T C S A G A A P R S S P R S R C S
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V V Q R T G H L E H P L D A A Q Q R
* S R G R G M S N M R S T P R R S V
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CTA CGA CCG GCC GCG TCC CAT GGA GTT CAT GCG GGA GGT CGG CCG CCT GCT GAC

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L R P A A S H G V H A G G R P P A D
Y D L P R P M E F M R E V G R L L T
T T C R V P W S S C G R S A A C * R

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V V A D P H G L L A I Q G R H E V G
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G R R H L G D R A E L S A R D A P R
D D G I W V T E Q S Y L P A M L H A
T T A S G * P S R A I C P R C S T P

R R R R P R G R A G P S S R A A G S
A G V V H D A V L V Q V V V P Q A L
Q A * S T T Q W S C R S * * P S R W

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D L P H G L A G A Q L H H I G L Q G
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I E W M A E R T G L K V V D A E L T
S S G W P S A P A * R W W M P S * P

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G D V A S A E R E H Q G A A A G R A
G T * P P L R E S T S A R R P E E R

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P R L R R K P L A R A G P P R L L S
P V Y G G S L S L V L A R R G S S R
P S T A E A S R S C W P A A A P L A

P * R A P A P G C G R R L S P G A R
L D V L R R Q G A D A G S L R V Q G
W T L S G A S A R M R A P S V S R G

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G I T E S S S A R A S S G S W N R T
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P I V S E E E A R A L E P D Q F L V
R S S P R R R P G R L S P T S S W S

G T S R G P R S P R G P V R S G P R
E R P D V P V R H D G P F A V E Q G
R G H I * R S A I T A R S R S K R A
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L P W I Y R D A M V A R E R D F L A
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G S A A Q D K R Q G R Q F N H S R T
E P P L R T K G S G V S S T T H D P
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GAG GCC TCC GTC GGA CCA GAA AGG CGA CGG GTG CGA CCT TCA ACA CAC TAG CCC
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CTC CGG AGG CAG CCT GGT CTT TCC GCT GCC CAC GCT GGA AGT TGT GTG ATC GGG
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L R R Q P G L S A A H A G S C V I G
S G G S L V F P L P T L E V V * S G
P E A A W S F R C P R W K L C D R
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R L H C R A A G G A H K G H A Q Q R
A S T V D R P V V R T S A T H R S D
P P P S M A R C W G R A Q R T G A T
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ACC GCC TCC ACT GTA GCG CGC CGT GGT GGG CGC ACG AAC GGC ACA CGG ACG ACA
    15021          15030          15039          15048          15057          15066
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G G G D I A R H H P R A C R V P A V
A E V T S R G T T R V L A V C L L S

H Q R Q Q G R G Q Q Q P V A G R A L
T S G S S A A A R S S H C P V V P L
P A A A A P R P G A A T A R C W P C
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    15075          15084          15093          15102          15111          15120
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G A A A A G R G P A A V A R H H G Q
V L P L L A A A L L L W H G T T G K

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G R R V A T R L R E C H A G G C A A
D D A S R P G S G S A T P G D A P H
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T S A H R N S S A R A T T T A T A R
H R P T A T A A R G R R P P P R R A
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ATG TCG AGG CGT GGC GGT TGC TGC TCG CCC TCG CCG TGG TGG TGG CCG TCG CGC
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C R G V A V A A R P R R G G G R R A
V E A W R L L L A L A V V V A V A R
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A Q P A S T P R C K P W G R T T P S
P R R L A P R G A S P G A V R P P R
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G L R S A G R P A L G P A T R G G R
A C G A L V G R H L G Q P R V V G E
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H D G P D N E A R R H E A E D S G P
I I E P I T R P G E T S P R T A G P
S S R R S R E R G K P A R G R R E R
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15291 15300 15309 15318 15327 15336
AGA TGA TCT CCG GGA TCG TTC TCG GCC CTT CGG TGC TCG GCC TCG TCG CTC CCG
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R * S P G S F S A L R C S A S S L P
D D L R D R S R P F G A R P R R S R
M I S G I V L G P S V L G L V A P G
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D V V G E E G G G E V G V E I E D G
T W S A R K G A A R W E * R S R T A
P G R R G R G R R G G S R G R D R R
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G S T T P S S P P P S T P T S I S S
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 W I P S A S N M N R I P M S N P S V
 G S R A P A T * T G S R C P T R H C

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 P D R A G A V H V P D R H G V R * H
 Q I G L A L F M F L I G M E F G D T

 V M F A R A A G P G G H S D D A D A
 W W S P A P R V P A A T P I T P T Q
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 H R E G E A T S Q S V R Q V G A V G
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 R V A D A E Q R E G E E Q A D G H A
 G S P T P K R G N V R K R P M A M L
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 H G G E G H Q R P Q Q H F A P H E L
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 CGC ACT GGC GGA AGG GGC ACG ACC GCG CCG ACG ACT ACC TTG CGC CCT ACG AGG

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15615				15624				15633				15642				15651				15660			
GCG	TGA	CCG	CCT	TCC	CCG	TGC	TGG	CGC	GGC	TGC	TGA	TGG	AAC	GCG	GGA	TGC	TCC						
A	*	P	P	S	P	C	W	R	G	C	*	W	N	A	G	C	S						
R	D	R	L	P	R	A	G	A	A	A	D	G	T	R	D	A	P						
V	T	A	F	P	V	L	A	R	L	L	M	E	R	G	M	L	Q						
G	P	R	A	G	V	G	D	H	P	G	G	G	G	I	E	G	A						
D	R	A	P	V	*	A	M	T	P	A	A	V	A	S	R	A	Q						
T	G	P	P	C	R	R	W	R	P	P	R	W	R	R	D	R	R						
TCA	GGG	CCC	GCC	CGT	GGA	TGC	GGT	AGC	ACC	CCC	GGC	GGT	GGC	GGC	TAG	AGC	GGA						
15669				15678				15687				15696				15705				15714			
AGT	CCC	GGG	CGG	GCA	CCT	ACG	CCA	TCG	TGG	GGG	CCG	CCA	CCG	CCG	ATC	TCG	CCT						
S	P	G	R	A	P	T	P	S	W	G	P	P	P	P	I	S	P						
V	P	G	G	H	L	R	H	R	G	G	R	H	R	R	S	R	L						
S	R	A	G	T	Y	A	I	V	G	A	A	T	A	D	L	A	C						
P	Q	Q	E	R	T	E	D	G	Q	Q	A	A	T	R	G	Q	A						
Q	S	S	S	A	P	R	T	A	R	N	R	P	P	E	G	R	P						
S	A	A	A	R	P	D	R	R	G	T	A	R	R	N	A	G	P						
CGA	CCG	ACG	ACG	AGC	GCC	CAG	AGC	AGC	GGG	ACA	ACG	CGC	CGC	CAA	GCG	GGG	ACC						
15723				15732				15741				15750				15759				15768			
GCT	GGC	TGC	TGC	TCG	CGG	GTC	TCG	TCG	CCC	TGT	TGC	GCG	GCG	GTT	CGC	CCC	TGG						
A	G	C	C	S	R	V	S	S	P	C	C	A	A	V	R	P	W						
L	A	A	A	R	G	S	R	R	P	V	A	R	R	F	A	P	G						
W	L	L	L	A	G	L	V	A	L	L	R	G	G	S	P	L	G						
H	Q	A	G	E	R	E	G	R	D	E	E	A	D	H	H	H	E						
T	S	R	V	R	A	S	V	A	T	K	K	P	T	M	T	T	S						
R	A	A	C	G	R	A	*	R	P	R	R	R	R	*	P	P	A						
CGC	ACG	ACG	CGT	GGG	AGC	GCG	AGT	GGC	GCC	AGA	AGA	AGC	CGC	AGT	ACC	ACC	ACG						
15777				15786				15795				15804				15813				15822			
GCG	TGC	TGC	GCA	CCC	TCG	CGC	TCA	CCG	CGG	TCT	TCT	TCG	GCG	TCA	TGG	TGG	TGC						
A	C	C	A	P	S	R	S	P	R	S	S	S	A	S	W	W	C						
R	A	A	H	P	R	A	H	R	G	L	L	R	R	H	G	G	A						
V	L	R	T	L	A	L	T	A	V	F	F	G	V	M	V	V	L						
D	A	G	G	Q	S	A	D	Q	L	P	R	L	A	P	Q	G	V						
T	R	G	A	K	R	R	T	R	S	R	G	S	R	R	S	G	S						
R	G	G	R	R	A	V	R	G	P	A	A	P	A	G	A	A	R						
AGC	AGG	CGG	GGC	GGA	ACG	CTG	CGC	AGG	ACC	TCG	CCG	GCC	TCG	CGG	CCG	ACG	GGC						
15831				15840				15849				15858				15867				15876			
TCG	TCC	GCC	CCG	CCT	TGC	GAC	GCG	TCC	TGG	AGC	GGC	CGG	AGC	GCC	GGC	TGC	CCG						
S	S	A	P	P	C	D	A	S	W	S	G	R	S	A	G	C	P						
R	P	P	R	L	A	T	R	P	G	A	A	G	A	P	A	A	R						
V	R	P	A	L	R	R	V	L	E	R	P	E	R	R	L	P	D						
A	A	H	E	C	Q	D	D	G	A	D	Q	Q	G	R	D	G	G						
P	P	T	S	V	S	I	M	G	P	T	R	S	D	A	T	A	V						

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R R R A * V S * G R R G A T R P R W
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15885 15894 15903 15912 15921 15930
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T A A C S H * S S P A S C C P R S P
R R R A H T D H P R R P A V R G R H
G G V L T L I I P G V L L S A V A T

L E Y A D M E D E A G E Q E A G D A
S S M P M W R M K P A K R N P A M Q
R A * L C G D * R R R R G T R R W R
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15939 15948 15957 15966 15975 15984
CCG AGC TCA TAG GCA TCC ATC TCA TCT TCG GCG CCT TCC TGT TCG GCG CCA TCT
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P S S * A S I S S S A P S C S A P S
R A H R H P S H L R R L P V R R H L
E L I G I H L I F G A F L F G A I C

R L G R R G Q R V G A A F Q L F E D
G F V A G A R A S A R P L S C S S T
G S S R A P G P P R G R C V A P V R
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CGG GCT TCT GGC GCG GCC GGG ACC GCC TGC GGG CGC CGT TTG ACG TCC TTG AGC
15993 16002 16011 16020 16029 16038
GCC CGA AGA CCG CGC CGG CCC TGG CGG ACG CCC GCG GCA AAC TGC AGG AAC TCG
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P E D R A G P G G R P R Q T A G T R
P K T A P A L A D A R G K L Q E L V

G G Y Q Q R R E E G R D A Q L G V Q
V A T S N G G N K A E T P R F V S R
* R R V T A A T R R R P R G S S R G
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16047 16056 16065 16074 16083 16092
TCA CCG CCG TAC TGT TGC CGC CGT TCT TCG CCT CGG TCG GCC TGA AGA CCG ACC
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H R R T V A A V L R L G R P E D R P
T A V L L P P F F A S V G L K T D L

Q L E A P A A A G Q P H P G A D G Q
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A A V R G P R R R G T P T P R R R G
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16101 16110 16119 16128 16137 16146
TGC TGC AAC TCG GCC GGG GCG GCG GCG CCC TGT GGG TGT GGG CCG GCG TCG CCC
---
C C N S A G A A A P C G C G P A S P
A A T R P G R R R P V G V G R R P
L Q L G R G G G A L W V W A G V A L

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Q H G D D A F Q R A A R R C R R Q H
 S T A T T P L S A P L A A A A S I
 A P P R R R C V P P C R P P L P A S

 ACG ACC ACC GGC AGC AGC CGT TTG ACC GCC CGT CGC GCC GCC GTC GCC GCG ACT
 16155 16164 16173 16182 16191 16200
 TGC TGG TGG CCG TCG TCG GCA AAC TGG CGG GCA GCG CGG CGG CAG CGG CGC TGA

 C W W P S S A N W R A A R R Q R R *
 A G G R R R Q T G G Q R G G S G A D
 L V A V V G K L A G S A A A A A L M

 R H L A D V G Q A D A H E H V A A S
 D T S R T S A R R M P T S M F Q R P
 T P P A R R R G A C R R A * S S G R

 ACA GCC ACC TCG CGC AGC TGC GGG ACC CGT AGC CGC ACC AGT ACT TGA CGG CGC
 16209 16218 16227 16236 16245 16254
 TGT CGG TGG AGC GCG TCG ACC CCC TGC GCA TCG GCG TGC TCA TGA ACT GCC GCG

 C R W S A S T P C A S A C S * T A A
 V G G A R R R P A H R R A H E L P R
 S V E R V D A L R I G V L M N C R G

 Q G F Q H D E G D P E F E A D Q C G
 S V S S T I R V M P S S S P T R V G
 V S R V P S G * W R A R V R R G S V

 CTG ACT GGC TTG ACC ACT AGG AGT GGT AGC CCG AGC TTG AGC CGC AGG ACT GTG
 16263 16272 16281 16290 16299 16308
 GAC TGA CCG AAC TGG TGA TCC TCA CCA TCG GGC TCG AAC TCG GCG TCC TGA CAC

 D * P N W * S S P S G S N S A S * H
 T D R T G D P H H R A R T R R P D T
 L T E L V I L T I G L E L G V L T P

 R Q E G H Q D D D G Q A G G D H G R
 A N N V M S T M T V R H A V T M V A
 R T T * W A P * R * G T R W R * S R

 GGC GCA ACA AGT GGT ACC AGT AGC AGT GGG ACA CGC GGT GGC AGT ACT GGC
 16317 16326 16335 16344 16353 16362
 CCG CGT TGT TCA CCA TGC TGG TCA TCG TCA CCC TGT GCG CCA CCG TCA TGA CCG

 P R C S P C W S S S P C A P P S * P
 R V V H H A G H R H P V R H R H D R
 A L F T M L V I V T L C A T V M T A

 R Q E V Q E V A G L R A G R G G T C
 G S S S R S S R A S A R V A G A R V
 A A A R G A R G R R P A C R A R G Y

 GCG GCG ACG AGC TGG ACG AGC TGG CGC GGC TCC GCG CGT GGC GCG GGC GGG CAT
 16371 16380 16389 16398 16407 16416
 CGC CGC TGC TCG ACC TGC TCG ACC GCG CCG AGG CGC GCA CCG CGC CCG CCC GTA

1003446 02502

R R C S T C S T A P R R A P R P P V
A A A R P A R P R G A H R A R P Y
P L L D L L D R A E A R T A P A R T

F R T G D N A S S P A A F E A R S I
F A L E T T R Q R R H P S N Q G P F
L L S N R R E S V V T R R I R G P F

GTT TTC GCT CAA GGC AGC AAG CGA CTG CTG CCA CGC CGC TTA AGA CGG GCC CTT
16425 16434 16443 16452 16461 16470
CAA AAG CGA GTT CCG TCG TTC GCT GAC GAC GGT GCG GCG AAT TCT GCC CGG GAA

Q K R V P S F A D D G A A N S A R E
K S E F R R S L T T V R R I L P G K
K A S S V V R * R R C G E F C P G N

G S R T * T I G E L I G V F R Q S H
A P A P R P S E R L F V S L V S V I
H R L P D L H N G * S Y R C F A S *

TAC GGC CTC GCC CAG ATC CAC TAA GGG AGT TCT TAT GGC TGT TTT GCG ACT GAT
16479 16488 16497 16506 16515 16524
ATG CCG GAG CGG GTC TAG GTG ATT CCC TCA AGA ATA CCG ACA AAA CGC TGA CTA

M P E R V * V I P S R I P T K R * L
C R S G S R * F P Q E Y R Q N A D Y
A G A G L G D S L K N T D K T L T M

D D F S H L D T R A P D L L G S F L
I T L L I C I R A R R T W Y A Q F C
S R * F F A S G H A G P G T L R F V

ACT AGC AGT TTT CTT ACG TCT AGG CAC GCG CGG CCC AGG TCA TTC GGA CTT TTG
16533 16542 16551 16560 16569 16578
TGA TCG TCA AAA GAA TGC AGA TCC GTG CGC GCC GGG TCC AGT AAG CCT GAA AAC

* S S K E C R S V R A G S S K P E N
D R Q K N A D P C A P G P V S L K T
I V K R M Q I R A R R V Q * A * K Q

S T P Q H L Y G V Q V D T S E A D E
P P P N T C I A S R Y M P A R P T K
P L H T P A S L R G T C R H E R R R

TCC CTC CAC CCA ACC ACG TCT ATC GGC TGG ACA TGT AGC CAC GAG AGC CGC AGA
16587 16596 16605 16614 16623 16632
AGG GAG GTG GGT TGG TGC AGA TAG CCG ACC TGT ACA TCG GTG CTC TCG GCG TCT

R E V G W C R * P T C T S V L S A S
G R W V G A D S R P V H R C S R R L
G G G L (V) Q I A D L Y I G A L G V F ✓

Y R R T H A D F P G H F A A E I R G
T G G H T L T S H A T S R P R * G A
R V A T H S R R I P R P V R G R D P

AGC ATG GCG GCA CAC ACT CGC AGC TTA CCC GGC ACC TTG CGC CGG AGA TAG GCC

16641	16650	16659	16668	16677	16686
TCG TAC CGC CGT GTG TGA GCG TCG AAT GGG CCG TGG AAC GCG GCC TCT ATC CGG					
S Y R R V *	A S N G P W N A A S I R				
R T A V C E R R M G R G T R P L S G					
V P P C V S V E W A V E R G L Y P A					
F L G L C V L E A P D G Y G A V D G					
S S A S A C S S P P T A M A P S T G					
R L P R P V R A R R P R W L R R R G					
GGC TTC TCC GGC TCC GTG TGC TCG AGC CGC CCC AGC GGT ATC GGC CGC TGC AGG					
16695	16704	16713	16722	16731	16740
CCG AAG AGG CCG AGG CAC ACG AGC TCG GCG GGG TCG CCA TAG CCG GCG ACG TCC					
P K R P R H T S S A G S P *	P A T S				
R R G R G T R A R R G R H S R R R P					
E E A E A H E L G G V A I A G D V P					
R R F H G Q P R R L L R H L P P A S					
G G S I A K R A A C C A T F L H P P					
G E P F P R A P P A A P P S S T P R					
GGG GAG GCC TTT ACC GGA ACG CCC GCC GCG TCG TCC GCC ACT TCT CCA CCC CGC					
16749	16758	16767	16776	16785	16794
CCC CTC CGG AAA TGG CCT TGC GGG CGG CGC AGC AGG CGG TGA AGA GGT GGG GCG					
P L R K W P C G R R S R R *	R G G A				
P S G N G L A G G A A G G E E V G R					
P P E M A L R A A Q Q A V K R W G G					
R R R F E I Q Q Q I R A G P V L A R					
D G V S N S R S S Y A L V Q C W P G					
I A S P I R D A A T H S C R A G P G					
CTA GCG GCT GCC TTA AGC TAG ACG ACG ACA TAC GCT CGT GGA CCG TGG TCC CGG					
16803	16812	16821	16830	16839	16848
GAT CGC CGA CGG AAT TCG ATC TGC TGC TGT ATG CGA GCA CCT GGC ACC AGG GCC					
D R R R N S I C C C M R A P G T R A					
I A D G I R S A A V C E H L A P G P					
S P T E F D L L L Y A S T W H Q G P					
V A P R G L C V Q L P V Q H A P V H					
S P Q G G W A Y R C R C R T P P S M					
P R S A A G P M G A A A G P P R P C					
GCC TGC CGA CCG GCG GGG TCC GTA TGG ACG TCG CCG TGG ACC ACC CGC CCC TGT					
16857	16866	16875	16884	16893	16902
CGG ACG GCT GGC CGC CCC AGG CAT ACC TGC AGC GGC ACC TGG TGG GCG GGG ACA					
R T A G R P R H T C S G T W W A G T					
G R L A A P G I P A A A P G G R G H					
D G W P P Q A Y L Q R H L V G G D M					
E G Q L D P L A A V A H E A R Q F E					
S A R S I L C P Q L P T N L A S S S					

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A   R   G   P   S   *   A   P   S   C   R   R   T   *   R   A   P   V
---
ACG AGC GGG ACC TCT AGT CCG TCC CGA CGT TGC CGC ACA AGT CGC GCG ACC TTG
      16911          16920          16929          16938          16947          16956
TGC TCG CCC TGG AGA TCA GGC AGG GCT GCA ACG GCG TGT TCA GCG CGC TGG AAC
---
C   S   P   W   R   S   G   R   A   A   T   A   C   S   A   R   W   N
  A   R   P   G   D   Q   A   G   L   Q   R   R   V   Q   R   A   G   T
  L   A   L   E   I   R   Q   G   C   N   G   V   F   S   A   L   E   L

      G   D   A   V   Q   L   G   I   R   V   A   G   A   R   Q   D   D   G
      A   T   P   *   R   C   A   S   G   F   R   V   L   A   S   I   T   A
R   R   R   S   G   A   P   R   D   S   G   C   W   R   A   S   R   R
---
AGC GGC AGC CGA TGG ACG TCC GGC TAG GCT TGG CGT GGT CGC GCG ACT AGC AGC
      16965          16974          16983          16992          17001          17010
TCG CCG TCG GCT ACC TGC AGG CCG ATC CGA ACC GCA CCA GCG CGC TGA TCG TCG
---
S   P   S   A   T   C   R   P   I   R   T   A   P   A   R   *   S   S
  R   R   R   L   P   A   G   R   S   E   P   H   Q   R   A   D   R   R
  A   V   G   Y   L   Q   A   D   P   N   R   T   S   A   L   I   V   A

      G   V   V   V   S   R   R   Q   D   V   P   P   P   H   A   G   A   E
      A   S   L   *   P   V   G   S   I   S   R   H   R   I   P   G   P   K
R   R   C   S   R   F   A   A   S   R   G   T   A   S   P   G   R   S
---
GGC GGC TGT TGA TGC CTT GCG GCG ACT AGC TGG CCA CCG CCT ACC CGG GGC CGA
      17019          17028          17037          17046          17055          17064
CCG CCG ACA ACT ACG GAA CGC CGC TGA TCG ACC GGT GGC GGA TGG GCC CCG GCT
---
P   P   T   T   T   E   R   R   *   S   T   G   G   G   W   A   P   A
  R   R   Q   L   R   N   A   A   D   R   P   V   A   D   G   P   R   L
  A   D   N   Y   G   T   P   L   I   D   R   W   R   M   G   P   G   F

      D   A   A   I   R   E   R   G   P   A   A   L   P   G   A   E   G   P
      M   P   P   S   A   S   G   G   Q   H   Q   L   R   G   P   K   A   R
*   R   R   R   H   A   G   A   R   T   S   C   A   A   R   S   R   G
---
AGT AGC CGC CGC TAC GCG AGG GCG GGA CCA CGA CGT TCG CCG GGC CGA AGC GGG
      17073          17082          17091          17100          17109          17118
TCA TCG GCG GCG ATG CGC TCC CGC CCT GGT GCT GCA AGC GGC CCG GCT TCG CCC
---
S   S   A   A   M   R   S   R   P   G   A   A   S   G   P   A   S   P
  H   R   R   R   C   A   P   A   L   V   L   Q   A   A   R   L   R   P
  I   G   G   D   A   L   P   P   W   C   C   K   R   P   G   F   A   R

      E   A   R   H   G   G   L   P   Q   R   L   D   L   R   Q   V   A   T
      S   Q   E   T   A   E   L   P   S   G   S   I   S   D   S   C   R   P
A   R   S   P   P   R   W   P   A   A   P   S   R   T   A   A   G   R
---
CCG AGA CGA GCC ACC GGA GGT TCC CCG ACG GCC TCT AGC TCA GCG ACG TGG CGC
      17127          17136          17145          17154          17163          17172
GGC TCT GCT CGG TGG CCT CCA AGG GGC TGC CGG AGA TCG AGT CGC TGC ACC GCG
---
G   S   A   R   W   P   P   R   G   C   R   R   S   S   R   C   T   A
  A   L   L   G   G   L   Q   G   A   A   G   D   R   V   A   A   P   R
  L   C   S   V   A   S   K   G   L   P   E   I   E   S   L   H   R   G

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      V L R Q E R R A D G P A T G G V E A
      S S G N N G G L M V R P R A V S K L
      H R A T T G A S C * G P G H W R S *
-----
CAC TGC TCG GCA ACA AGG GCG GCT CGT AGT GGG CCC CGG CAC GGT GGC TGA AGT
      17181          17190          17199          17208          17217          17226
GTG ACG AGC CGT TGT TCC CGC CGA GCA TCA CCC GGG GCC GTG CCA CCG ACT TCA
-----
      V T S R C S R R A S P G A V P P T S
      * R A V V P A E H H P G P C H R L Q
      D E P L F P P S I T R G R A T D F S
-----
      G T D A L L E G G A A G G E N R H G
      A R I P W C N A V R L G A K T A I A
      R G Y R G A T R W G C G R R R Q S P
-----
CGC GGG CAT AGC CGG TCG TCA AGC GGT GGG CGT CGG GGC GGA AGC AAC GCT ACC
      17235          17244          17253          17262          17271          17280
GCG CCC GTA TCG GCC AGC AGT TCG CCA CCC GCA GCC CCG CCT TCG TTG CGA TGG
-----
      A P V S A S S S P P A A P P S L R W
      R P Y R P A V R H P Q P R L R C D G
      A R I G Q Q F A T R S P A F V A M A
-----
      L N L V M H H V H G L A G Q G P G A
      S I * S W I I S T A S R A R A P A P
      R S E P G Y S P R P R A R G P R P R
-----
GGC TCT AAG TCC TGG TAT ACT ACC TGC ACC GGC TCG CGC GGG ACC GGC CCC GGC
      17289          17298          17307          17316          17325          17334
CCG AGA TTC AGG ACC ATA TGA TGG ACG TGG CCG AGC GCG CCC TGG CCG GGG CCG
-----
      P R F R T I * W T W P S A P W P G P
      R D S G P Y D G R G R A R P G R G R
      E I Q D H M M D V A E R A L A G A G
-----
      D P H R V D G A D G E H V I V R L P
      M P I A S T A R T E K M F * * A F H
      C R S P P R R G R R R * S S D R S T
-----
CGT AGC CCT ACC GCC TGC AGC GGG CGC AGA GGA AGT ACT TGA TAG TGC GCT TCA
      17343          17352          17361          17370          17379          17388
GCA TCG GGA TGG CGG ACG TCG CCC GCG TCT CCT TCA TGA ACT ATC ACG CGA AGT
-----
      A S G W R T S P A S P S * T I T R S
      H R D G G R R P R L L H E L S R E V
      I G M A D V A R V S F M N Y H A K W
-----
      R A T S F P P R P P A A T G T W T P
      D L L A S H R G P P H R Q G P G R P
      T S C H Q I A A Q P T G S D R D V H
-----
CCA GCT CGT CAC GAC TTA CCG CCG GAC CCC CCA CGG CGA CAG GGC CAG GTG CAC
      17397          17406          17415          17424          17433          17442
GGT CGA GCA GTG CTG AAT GGC GGC CTG GGG GGT GCC GCT GTC CCG GTC CAC GTG
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G R A V L N G G L G G A A V P V H V
V E Q C * M A A W G V P L S R S T W
S S S A E W R P G G C R C P G P R G

I R G P S R G S A P G A V M Q Q G H
F E A P L D A V Q P A L S W R S D M
S N P R S I P W K R P W R G D A T W

CCT TAA GCC GGC CCT CTA GCC GGT GAA CGC CCC GGT CGC TGG TAG ACG ACA GGT
17451 17460 17469 17478 17487 17496

GGA ATT CGG CCG GGA GAT CGG CCA CTT GCG GGG CCA GCG ACC ATC TGC TGT CCA

G I R P G D R P L A G P A T I C C P
E F G R E I G H L R G Q R P S A V H
N S A G R S A T C G A S D H L L S M

F V D Y P G T L E G G A V V D Q L E
S C M T R V P S S A G P S W T R C S
P V C R V S R H A R G R R G R G A V

ACC TTG TGT AGC ATG CCT GGC CAC TCG AGC GGG GGC CGC TGG TGC AGG ACG TTG
17505 17514 17523 17532 17541 17550

TGG AAC ACA TCG TAC GGA CCG GTG AGC TCG CCC CCG GCG ACC ACG TCC TGC AAC

W N T S Y G P V S S P P A T T S C N
G T H R T D R * A R P R R P R P A T
E H I V R T G E L A P G D H V L Q L

G R G R A Q H H G A G D K L N E F R
A V A G P R T T D L A T R * T R S D
R W P G P G P P T W R R G E P E R I

AGC GGT GCC GGG GCC CGG ACC ACC ACA GGT CGC GGC AGG AAG TCC AAG AGC TTA
17559 17568 17577 17586 17595 17604

TCG CCA CGG CCC CGG GCC TGG TGG TGT CCA GCG CCG TCC TTC AGG TTC TCG AAT

S P R P R A W W C P A P S F R F S N
R H G P G P G G V Q R R P S G S R I
A T A P G L V V S S A V L Q V L E S

R V P V F S S Y R C R R V S Y A R S
G S Q S S H H I G A V V F P I H G H
A P S P R I I F V P L S S R F I G T

GCG GCC TGA CCC TGC TTA CTA CTT ATG GCC GTT GCT GCT TGC CTT ATA CGG GCA
17613 17622 17631 17640 17649 17658

CGC CGG ACT GGG ACG AAT GAT GAA TAC CGG CAA CGA CGA ACG GAA TAT GCC CGT

R R T G T N D E Y R Q R R T E Y A R
A G L G R M M N T G N D E R N M P V
P D W D E * * I P A T T N G I C P * M

I G Q D G P P S G R E P P R P R S R
Y G K I A R R V G E R R H G H D P D
I D R S R G A S E R E G T A T T P I

CTA TAG GGA ACT AGC GGG CCG CCT GAG GGA GAG AGG CCA CCG GCA CCA GCC CTA

17667				17676				17685				17694				17703				17712			
GAT	ATC	CCT	TGA	TCG	CCC	GGC	GGA	CTC	CCT	CTC	TCC	GGT	GGC	CGT	GGT	CGG	GAT						

D	I	P	*	S	P	G	G	L	P	L	S	G	G	R	G	R	D						
I	S	L	D	R	P	A	D	S	L	S	P	V	A	V	V	G	I						
Y	P	L	I	A	R	R	T	P	S	L	R	W	P	W	S	G	S						

I	G	T	G	R	H	H	*	S	A	R	R	I	R	P	G	T	S						
S	A	P	E	G	T	T	D	V	R	G	A	F	E	P	V	Q	Q						
P	H	R	N	G	P	P	T	L	E	G	P	S	N	Q	S	R	N						

GCC	TAC	GGC	CAA	GGG	GCC	ACC	ACA	GTT	GAG	CGG	GCC	GCT	TAA	GAC	CCT	GGA	CAA						
17721				17730				17739				17748				17757				17766			
CGG	ATG	CCG	GTT	CCC	CGG	TGG	TGT	CAA	CTC	GCC	CGG	CGA	ATT	CTG	GGA	CCT	GTT						

R	M	P	V	P	R	W	C	Q	L	A	R	R	I	L	G	P	V						
G	C	R	F	P	G	G	V	N	S	P	G	E	F	W	D	L	L						
D	A	G	S	P	V	V	S	T	R	P	A	N	S	G	T	C	*						

P	R	V	C	C	R	R	R	S	A	G	R	G	S	P	L	T	G						
R	G	S	A	V	G	D	A	L	H	G	G	V	A	P	F	L	V						
V	A	P	R	L	V	T	P	S	I	G	G	S	R	Q	S	S	Y						

CTG	CCG	GCC	TGC	GTT	GTG	GCA	GCC	GCT	CTA	CGG	GGG	GCT	GGC	GAC	CCT	TCT	CAT						
17775				17784				17793				17802				17811				17820			
GAC	GGC	CGG	ACG	CAA	CAC	CGT	CGG	CGA	GAT	GCC	CCC	CGA	CCG	CTG	GGA	AGA	GTA						

D	G	R	T	Q	H	R	R	R	D	A	P	R	P	L	G	R	V						
T	A	G	R	N	T	V	G	E	M	P	P	D	R	W	E	E	Y						
R	P	D	A	T	P	S	A	R	C	P	P	T	A	G	K	S	T						

P	S	R	D	A	T	R	H	P	A	A	S	P	S	E	S	R	C						
P	V	E	T	R	P	E	I	R	R	Q	P	R	R	N	A	G	A						
R	S	K	P	G	R	N	S	A	A	S	R	V	A	I	R	E	P						

GGC	CCT	GAA	GCC	AGG	CGC	CAA	GCT	ACG	CCG	CGA	CGC	CTG	CCG	CTA	AGC	GAG	GCC						
17829				17838				17847				17856				17865				17874			
CCG	GGA	CTT	CGG	TCC	GCG	GTT	CGA	TGC	GGC	GCT	GCG	GAC	GGC	GAT	TCG	CTC	CGG						

P	G	L	R	S	A	V	R	C	G	A	A	D	G	D	S	L	R						
R	D	F	G	P	R	F	D	A	A	L	R	T	A	I	R	S	G						
G	T	S	V	R	G	S	M	R	R	C	G	R	R	F	A	P	A						

N	G	P	R	R	C	L	P	N	R	R	R	T	R	R	C	R	A						
T	E	Q	V	V	V	Y	R	T	E	V	G	L	E	E	A	D	R						
L	K	R	S	S	S	M	A	P	K	S	A	S	N	K	P	M	E						

GTC	AAA	GGA	CCT	GCT	GCT	GTA	TCG	CCC	AAA	GCT	GCG	GCT	CAA	GAA	GCC	GTA	GAG						
17883				17892				17901				17910				17919				17928			
CAG	TTT	CCT	GGA	CGA	CGA	CAT	AGC	GGG	TTT	CGA	CGC	CGA	GTT	CTT	CGG	CAT	CTC						

Q	F	P	G	R	R	H	S	G	F	R	R	R	V	L	R	H	L						
S	F	L	D	D	D	I	A	G	F	D	A	E	F	F	G	I	S						
V	S	W	T	T	T	*	R	V	S	T	P	S	S	S	A	S	R						

A	R	P	R	A	S	P	G	A	A	A	G	S	A	P	P	P	R						
R	A	L	G	L	Q	H	V	R	L	L	A	Q	H	Q	L	H	G						

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G	R	S	A	S	S	I	S	G	C	C	R	R	I	S	S	T	A
CGG	CGC	GCT	CCG	GCT	CGA	CTA	CCT	GGG	CGT	CGT	CGC	GGA	CTA	CGA	CCT	CCA	CCG
17937		17946		17955		17964		17973		17982							
GCC	GCG	CGA	GGC	CGA	GCT	GAT	GGA	CCC	GCA	GCA	GCG	CCT	GAT	GCT	GGA	GGT	GGC

A	A	R	G	R	A	D	G	P	A	A	A	P	D	A	G	G	G
P	R	E	A	E	L	M	D	P	Q	Q	R	L	M	L	E	V	A
R	A	R	P	S	*	W	T	R	S	S	A	*	C	W	R	W	P

A	P	V	P	A	R	P	C	G	A	A	C	G	P	L	S	R	C
P	L	C	Q	L	V	R	A	D	R	R	V	G	Q	C	P	G	V
Q	C	A	S	S	C	A	P	M	G	G	C	V	R	A	P	V	S

GAC	CGT	CCG	TGA	CCT	CGT	GCG	CCC	GTA	GGG	CGG	CGT	GTG	GGA	CCG	TCC	CTG	GCT
17991		18000		18009		18018		18027		18036							
CTG	GCA	GGC	ACT	GGA	GCA	CGC	GGG	CAT	CCC	GCC	GCA	CAC	CCT	GGC	AGG	GAC	CGA

L	A	G	T	G	A	R	G	H	P	A	A	H	P	G	R	D	R
W	Q	A	L	E	H	A	G	I	P	P	H	T	P	L	A	G	T
G	R	H	W	S	T	R	A	S	R	R	T	P	W	Q	G	P	T

R	H	T	R	R	P	R	C	R	R	S	H	R	R	V	A	P	L
G	T	H	E	G	P	D	A	G	V	V	I	A	G	S	P	Q	F
V	P	T	N	A	P	T	Q	V	*	S	*	P	A	P	R	S	S

GTG	GCC	ACA	CAA	GCG	GCC	CCA	GAC	GTG	GAT	GCT	GAT	ACC	GCG	GCC	TGC	CGA	CCT
18045		18054		18063		18072		18081		18090							
CAC	CGG	TGT	GTT	CGC	CGG	GGT	CTG	CAC	CTA	CGA	CTA	TGG	CGC	CGG	ACG	GCT	GGA

H	R	C	V	R	R	G	L	H	L	R	L	W	R	R	T	A	G
T	G	V	F	A	G	V	C	T	Y	D	Y	G	A	G	R	L	E
P	V	C	S	P	G	S	A	P	T	T	M	A	P	D	G	W	K

G	A	S	C	R	R	M	S	P	S	R	R	P	P	T	R	R	T
V	Q	R	V	D	V	C	P	R	P	D	A	R	R	H	A	G	H
S	R	G	F	M	S	A	H	V	P	I	P	A	A	T	H	A	T

TCT	GGA	CGG	CTT	GTA	GCT	GCG	TAC	CTG	CCC	CTA	GCC	GCG	CCG	CCA	CAC	GCG	GCA
18099		18108		18117		18126		18135		18144							
AGA	CCT	GCC	GAA	CAT	CGA	CGC	ATG	GAC	GGG	GAT	CGG	CGC	GGC	GGT	GTG	CGC	CGT

R	P	A	E	H	R	R	M	D	G	D	R	R	G	G	V	R	R
D	L	P	N	I	D	A	W	T	G	I	G	A	A	V	C	A	V
T	C	R	T	S	T	H	G	R	G	S	A	R	R	C	A	P	C

W	G	R	R	E	R	A	R	G	A	R	A	W	G	R	W	R	C
G	V	A	D	R	V	R	E	V	Q	A	P	G	A	E	G	D	V
D	L	R	T	E	*	A	S	S	R	R	P	G	L	R	E	M	S

CAG	GTT	GGC	GCA	GAG	AGT	GCG	CGA	GCT	GGA	CGC	GCC	CGG	GTC	GGA	GAG	GTA	GCT
18153		18162		18171		18180		18189		18198							
GTC	CAA	CCG	CGT	CTC	TCA	CGC	GCT	CGA	CCT	GCG	CGG	GCC	CAG	CCT	CTC	CAT	CGA

V	Q	P	R	L	S	R	A	R	P	A	R	A	Q	P	L	H	R
S	N	R	V	S	H	A	L	D	L	R	G	P	S	L	S	I	D
P	T	A	S	L	T	R	S	T	C	A	G	P	A	S	P	S	T

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R T S P R G P P A A C R R A S G A A
G R A R G G Q H R Q V G G R L A Q P
V A H E A E R T A S C V A A C L R R
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GTG GCG CAC GAG CCG GAG GGA CCA CCG CGA CGT GTG GCG GCG CGT CTC GGA CGC
18207 18216 18225 18234 18243 18252
CAC CGC GTG CTC GGC CTC CCT GGT GGC GCT GCA CAC CGC CGC GCA GAG CCT GCG
---
H R V L G L P G G A A H R R A E P A
T A C S A S L V A L H T A A Q S L R
P R A R P P W W R C T P P R R A C G
---
R R T C R P A P R P R * G A P T V P
E A L A G H R Q G P A D V Q Q H * R
S P S H V T A S A P P T L R S T D G
---
CGA GCC GCT CAC GTG GCA CCG CGA CCG GCC CCC GCA GTT GGA CGA CCA CAG TGG
18261 18270 18279 18288 18297 18306
GCT CGG CGA GTG CAC CGT GGC GCT GGC CGG GGG CGT CAA CCT GCT GGT GTC ACC
---
A R R V H R G A G R G R Q P A G V T
L G E C T V A L A G G V N L L V S P
S A S A P W R W P G A S T C W C H R
---
G S S R G P C P R R A P A R R G S C
A L R D G Q A R G A R Q R G V A P A
P W V I A R P V A P A S A G S P R L
---
CCC GGT CTG CTA GCG GGA CCC GTG CCG GCC GCG CGA CCG CGG GCT GCC GGC CTC
18315 18324 18333 18342 18351 18360
GGG CCA GAC GAT CGC CCT GGG CAC GGC CGG CGC GCT GGC GCC CGA CGG CCG GAG
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G P D D R P G H G R R A G A R R P E
G Q T I A L G T A G A L A P D G R S
A R R S P W A R P A R W R P T A G A
---
A T R R T P R V S R R Q R T P R R S
L R E G R R G S A V G N G R R G V A
L G N A A D A P R * A T A A D A S P
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GTT CGG CAA GCG GCG CAG CCG GCC TGC GAT GCG GCA ACG GCG CAG CCG GCT GCC
18369 18378 18387 18396 18405 18414
CAA GCC GTT CGC CGC GTC GGC CGG ACG CTA CGC CGT TGC CGC GTC GGC CGA CGG
---
Q A V R R V G R T L R R C R V G R R
K P F A A S A G R Y A V A A S A D G
S R S P R R P D A T P L P R R P T A
---
R G R R P S R R A P * * A A S P R R
V A A A L A A A H Q D D L Q Q R V G
* P R P S P Q P T S T M L S S V S A
---
GAT GCC GGC GCC GCT CCC GAC GCC GCA CGA CCA GTA GTT CGA CGA CTG CCT GCG
18423 18432 18441 18450 18459 18468
CTA CGG CCG CGG CGA GGG CTG CGG CGT GCT GGT CAT CAA GCT GCT GAC GGA CGC

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L R P R R G L R R A G H Q A A D G R
 Y G R G E G C G V L V I K L L T D A
 T A A A R A A A C W S S S C * R T P

 V R R H G P A P P A A R C R T * G P
 Y A V T V P H Q R H Q A A A R E V L
 T R S P S R T S A T S R P L A N L W

 GCA TGC GCT GCC ACT GGC CCA CGA CCG CCA CGA CGC GCC GTC GCG CAA GTT GGT
 18477 18486 18495 18504 18513 18522
 CGT ACG CGA CGG TGA CCG GGT GCT GGC GGT GCT GCG CGG CAG CGC GTT CAA CCA

 R T R R * P G A G G A A R Q R V Q P
 V R D G D R V L A V L R G S A F N Q
 Y A T V T G C W R C C A A A R S T R

 R A C W R C * P G R R A P G P A R *
 V P A G V A D H G G A P L G L L V D
 S P R V L P M M A G Q P C A W S C T

 CCT GCC CGC GTG GTT GCC GTA GTA CCG GGG GAC GCC CGT CCG GGT CCT CGT GCA
 18531 18540 18549 18558 18567 18576
 GGA CGG GCG CAC CAA CGG CAT CAT GGC CCC CTG CGG GCA GGC CCA GGA GCA CGT

 G R A H Q R H H G P L R A G P G A R
 D G R T N G I M A P C G Q A Q E H V
 T G A P T A S W P P A G R P R S T S

 S A R G S P R P R R Q R C R Q S R R
 H P A G Q R G R A D S G V G N V E D
 M L R A R V A A P T A A S V T S K T

 GTA CTC CGC GCG GGA CTG CCG GCG CCC GCA GCG ACG GCT GTG GCA ACT GAA GCA
 18585 18594 18603 18612 18621 18630
 CAT GAG GCG CGC CCT GAC GGC CGC GGG CGT CGC TGC CGA CAC CGT TGA CTT CGT

 H E A R P D G R G R R C R H R * L R
 M R R A L T A A G V A A D T V D F V
 * G A P * R P R A S L P T P L T S S

 P G R C R Y G G R R G W P S R R S R
 L G V A G T G A E A V G H L D A R D
 S A W P V P V R R P S G M S I P A I

 GCT CCG GGT GCC GTG GCC ATG GGC GGA GCC GCT GGG GTA CCT CTA GCC GCG CTA
 18639 18648 18657 18666 18675 18684
 CGA GGC CCA CGG CAC CGG TAC CCG CCT CGG CGA CCC CAT GGA GAT CGG CGC GAT

 R G P R H R Y P P R R P H G D R R D
 E A H G T G T R L G D P M E I G A I
 R P T A P V P A S A T P W R S A R S

 R R R R V H G S R D P A T R P R T P
 G G D V S T V A G T L L R A R D P R
 A A T * P R S R E P * S G H A T P D

 CCG GCG GCA GAT GCC TGC ACT GGC GAG GCC AGT CCT CGG CAC GCG CCA GCC CAG

18693			18702			18711			18720			18729			18738		
CGC	CGC	CGT	CTA	CGG	ACG	TGA	CCG	CTC	CGG	TCA	GGA	GCC	GTG	CGC	GGT	CGG	GTC

R	R	R	L	R	T	*	P	L	R	S	G	A	V	R	G	R	V
A	A	V	Y	G	R	D	R	S	G	Q	E	P	C	A	V	G	S
P	P	S	T	D	V	T	A	P	V	R	S	R	A	R	S	G	R

S	T	W	C	R	A	D	P	P	P	R	R	P	R	R	P	*	*
H	L	G	V	D	P	M	Q	L	P	G	G	P	D	G	P	D	D
T	F	D	L	M	P	C	R	S	P	A	A	P	T	A	P	T	M

CCA	CTT	CAG	GTT	GTA	GCC	CGT	AGA	CCT	CCC	CCG	GCG	GCC	CCA	GCG	GCC	CCA	GTA
18747			18756			18765			18774			18783			18792		
GGT	GAA	GTC	CAA	CAT	CGG	GCA	TCT	GGA	GGG	GGC	CGC	CGG	GGT	CGC	CGG	GGT	CAT

G	E	V	Q	H	R	A	S	G	G	G	R	R	G	R	R	G	H
V	K	S	N	I	G	H	L	E	G	A	A	G	V	A	G	V	I
*	S	P	T	S	G	I	W	R	G	P	P	G	S	P	G	S	S

P	S	G	R	G	R	R	P	G	S	G	P	W	G	A	P	R	R
L	R	D	E	G	E	V	L	V	P	D	R	G	A	Q	Q	V	A
L	A	I	R	A	R	S	S	S	R	I	G	A	L	R	S	S	P

GTT	CCG	CTA	GGA	GCG	GGA	GCT	GCT	CCT	GGC	CTA	GGG	CCG	GTC	GGA	CGA	CCT	GCC
18801			18810			18819			18828			18837			18846		
CAA	GGC	GAT	CCT	CGC	CCT	CGA	CGA	GGA	CCG	GAT	CCC	GGC	CAG	CCT	GCT	GGA	CGG

Q	G	D	P	R	P	R	R	G	P	D	P	G	Q	P	A	G	R
K	A	I	L	A	L	D	E	D	R	I	P	A	S	L	L	D	G
R	R	S	S	P	S	T	R	T	G	S	R	P	A	C	W	T	A

G	S	G	R	S	R	S	P	R	G	R	C	G	A	P	S	G	P
V	R	V	G	L	D	V	P	G	A	E	V	D	P	Q	R	G	P
S	G	F	G	S	I	S	Q	A	P	R	S	M	R	S	A	V	R

GCT	GGG	CTT	GGG	GCT	CTA	GCT	GAC	CCG	GCC	GGA	GCT	GTA	GGC	CGA	CCG	CTG	GGC
18855			18864			18873			18882			18891			18900		
CGA	CCC	GAA	CCC	CGA	GAT	CGA	CTG	GGC	CGG	CCT	CGA	CAT	CCG	GCT	GGC	GAC	CCG

R	P	E	P	R	D	R	L	G	R	P	R	H	P	A	G	D	P
D	P	N	P	E	I	D	W	A	G	L	D	I	R	L	A	T	R
T	R	T	P	R	S	T	G	P	A	S	T	S	G	W	R	P	G

G	A	T	A	R	A	D	A	G	G	G	P	P	Q	T	R	N	R
G	Q	R	P	G	L	T	R	V	G	A	P	R	S	H	G	T	E
A	R	G	H	G	S	R	G	C	G	R	R	A	A	T	D	P	K

CCG	GGA	CGG	CAC	CGG	GCT	CGC	AGG	CGT	GGG	GGC	GGC	CCG	CCG	ACA	CAG	GCC	AAA
18909			18918			18927			18936			18945			18954		
GGC	CCT	GCC	GTG	GCC	CGA	GCG	TCC	GCA	CCC	CCG	CCG	GGC	GGC	TGT	GTC	CGG	TTT

G	P	A	V	A	R	A	S	A	P	P	P	G	G	C	V	R	F
A	L	P	W	P	E	R	P	H	P	R	R	A	A	V	S	G	F
P	C	R	G	P	S	V	R	T	P	A	G	R	L	C	P	V	S

S	R	R	C	R	P	G	H	P	G	R	V	P	A	W	R	A	R
A	V	A	A	G	H	G	M	H	D	E	F	L	R	G	G	R	G

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P	*	P	P	V	T	A	W	T	T	R	S	C	A	G	V	A	G
GCC	GAT	GCC	GCC	GTG	GCA	CCG	GGT	ACA	CCA	GGA	GCT	TGT	CCG	CGG	GTG	GCG	CGG
18963		18972		18981		18990		18999		19008							
CGG	CTA	CGG	CGG	CAC	CGT	GGC	CCA	TGT	GGT	CCT	CGA	ACA	GGC	GCC	CAC	CGC	GCC
R	L	R	R	H	R	G	P	C	G	P	R	T	G	A	H	R	A
G	Y	G	G	T	V	A	H	V	V	L	E	Q	A	P	T	A	P
A	T	A	A	P	W	P	M	W	S	S	N	R	R	P	P	R	P
G	G	R	A	P	A	P	R	F	G	T	G	P	T	R	P	R	G
G	A	G	R	R	L	R	G	S	G	Q	E	R	H	G	R	G	G
A	R	G	A	G	S	G	A	P	V	R	N	G	T	D	A	A	E
GCG	GGC	GGG	GCG	CGG	CCT	CGG	CCG	GCC	TTG	GGA	CAA	GGG	CCA	CAG	GCG	CCG	GAG
19017		19026		19035		19044		19053		19062							
CGC	CCG	CCC	CGC	GCC	GGA	GCC	GGC	CGG	AAC	CCT	GTT	CCC	GGT	GTC	CGC	GGC	CTC
R	P	P	R	A	G	A	G	R	N	P	V	P	G	V	R	G	L
A	R	P	A	P	E	P	A	G	T	L	F	P	V	S	A	A	S
P	A	P	R	R	S	R	P	E	P	C	S	R	C	P	R	P	P
P	P	A	G	H	G	R	P	R	A	R	R	A	P	R	P	P	R
R	L	R	E	T	V	A	R	G	R	E	G	L	P	D	L	L	A
G	S	A	S	R	S	R	A	A	A	S	A	S	R	T	S	S	P
GGG	CCT	CCG	CGA	GGC	ACT	GGC	GCG	CCG	GCG	CGA	GCG	GCT	CGC	CCA	GCT	CCT	CCC
19071		19080		19089		19098		19107		19116							
CCC	GGA	GGC	GCT	CCG	TGA	CCG	CGC	GGC	CGC	GCT	CGC	CGA	GCG	GGT	CGA	GGA	GGG
P	G	G	A	P	*	P	R	G	R	A	R	R	A	G	R	G	G
P	E	A	L	R	D	R	A	A	A	L	A	E	R	V	E	E	G
R	R	R	S	V	T	A	R	P	R	S	P	S	G	S	R	R	A
Q	G	P	R	P	R	A	C	G	P	G	D	A	T	G	A	P	G
S	V	Q	G	R	D	P	V	G	Q	G	M	P	L	G	R	Q	D
A	S	R	A	E	T	P	C	V	R	A	W	R	C	D	G	S	T
GCG	ACT	GGA	CCG	GAG	CCA	GCC	CGT	GTG	GGA	CCG	GGT	AGC	CGT	CAG	GGG	CGA	CCA
19125		19134		19143		19152		19161		19170							
CGC	TGA	CCT	GGC	CTC	GGT	CGG	GCA	CAC	CCT	GGC	CCA	TCG	GCA	GTC	CCC	GCT	GGT
R	*	P	G	L	G	R	A	H	P	G	P	S	A	V	P	A	G
A	D	L	A	S	V	G	H	T	L	A	H	R	Q	S	P	L	V
L	T	W	P	R	S	G	T	P	W	P	I	G	S	P	R	W	S
G	P	P	R	R	P	S	R	G	P	R	V	P	R	R	A	A	R
V	P	R	G	D	H	R	G	A	P	V	F	Q	G	G	P	Q	A
W	R	A	A	T	T	A	V	P	R	S	S	S	A	A	P	S	R
GGT	GGC	CCG	CCG	GCA	GCA	CCG	CTG	GCC	GGC	CCT	GCT	TGA	CCG	GCG	GCC	CGA	CGC
19179		19188		19197		19206		19215		19224							
CCA	CCG	GGC	GGC	CGT	CGT	GGC	GAC	CGG	CCG	GGA	CGA	ACT	GGC	CGC	CGG	GCT	GCG
P	P	G	G	R	R	G	D	R	P	G	R	T	G	R	R	A	A
H	R	A	A	V	V	A	T	G	R	D	E	L	A	A	G	L	R
T	G	R	P	S	W	R	P	A	G	T	N	W	P	P	G	C	A

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      A P W E P V R A R D R * R P R A A P
      R Q G S L F G R G T E D G P G R Q R
      A S A V * S G A G P R T V P A A S G
-----
GCG CGA CCG GTG AGT CCT TGG GCG CGG GCC AGA GCA GTG GCC CCG GCG CGA CGG
      19233      19242      19251      19260      19269      19278
CGC GCT GGC CAC TCA GGA ACC CGC GCC CGG TCT CGT CAC CGG GGC CGC GCT GCC
-----
      R A G H S G T R A R S R H R G R A A
      A L A T Q E P A P G L V T G A A L P
      R W P L R N P R P V S S P G P R C R
-----
      H R G D R R P T R P D R T G T P R S
      I G A T G D P H E R T V P G L P G P
      S A P R G T Q T N E P * P D W H A P
-----
CCT ACG GCC GGC AGG GCA GAC CCA CAA GAG CCC AGT GCC CAG GGT CAC CCG GCC
      19287      19296      19305      19314      19323      19332
GGA TGC CGG CCG TCC CGT CTG GGT GTT CTC GGG TCA CGG GTC CCA GTG GGC CGG
-----
      G C R P S R L G V L G S R V P V G R
      D A G R P V W V F S G H G S Q W A G
      M P A V P S G C S R V T G P S G P G
-----
      P G R V A P L R A P R R R P S R R V
      H A A F Q Q F G L R D E G L H D V F
      I P R S S S S A S G T K A S T I S S
-----
CTA CCC GGC GCT TGA CGA CCT TCG GCT CGG CCA GAA GCG GCT CCA CTA GCT GCT
      19341      19350      19359      19368      19377      19386
GAT GGG CCG CGA ACT GCT GGA AGC CGA GCC GGT CTT CGC CGA GGT GAT CGA CGA
-----
      D G P R T A G S R A G L R R G D R R
      M G R E L L E A E P V F A E V I D E
      W A A N C W K P S R S S P R * S T N
-----
      P A P T * P P S R T R A G A S A A P
      Q L R H E L L L D P E R G P L H Q Q
      S S G T N L S S I P N E G R C I S S
-----
TGA CCT CGG CCA CAA GTT CCT CCT CTA GCC CAA GAG CGG GGC CGT CTA CGA CGA
      19395      19404      19413      19422      19431      19440
ACT GGA GCC GGT GTT CAA GGA GGA GAT CGG GTT CTC GCC CCG GCA GAT GCT GCT
-----
      T G A G V Q G G D R V L A P A D A A
      L E P V F K E E I G F S P R Q M L L
      W S R C S R R R S G S R P G R C C W
-----
      P R G C R P R R R G S W S R R S A A
      L A V V G L D V A G L G H D E R H L
      S P S W V S T S P A W V M I K A I C
-----
CCT CCC GCT GGT GTG GCT CCA GCT GCC GCG GGT CTG GTA CTA GAA GCG CTA CGT
      19449      19458      19467      19476      19485      19494
GGA GGG CGA CCA CAC CGA GGT CGA CGG CGC CCA GAC CAT GAT CTT CGC GAT GCA
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G G R P H R G R R R P D H D L R D A
 E G D H T E V D G A Q T M I F A M Q
 R A T T P R S T A P R P * S S R C S

 R A R R A T A T V P R R A R R R * R
 E P E G R Q P P * P A D L G G G D D
 S P S A A S H R D R P T S G A A T M

 CGA GCC CGA GCG GCG CGA CAC CGC CAG TGC CCC GCA GCT CGG GCG GCG GCA GTA
 19503 19512 19521 19530 19539 19548
 GCT CGG GCT CGC CGC GCT GTG GCG GTC ACG GGG CGT CGA GCC CGC CGC CGT CAT

 A R A R R A V A V T G R R A R R R H
 L G L A A L W R S R G V E P A A V I
 S G S P R C G G H G A S S P P P S S

 G S P R H S R R R R * R R P A S R S
 A V R D T L D G G G D G G P R Q G H
 P W E T P S I A A A T V A P A S V T

 GCC GGT GAG CCA GCC ACT CTA GCG GCG GCG GCA GTG GCG GCC CCG CGA CTG GCA
 19557 19566 19575 19584 19593 19602
 CGG CCA CTC GGT CGG TGA GAT CGC CGC CGC CGT CAC CGC CGG GGC GCT GAC CGT

 R P L G R * D R R R R H R R G A D R
 G H S V G E I A A A V T A G A L T V
 A T R S V R S P P P S P P G R * P *

 R R P G A S R G Y T A A A A R P R P
 G V P G P Q D A T P R Q Q Q A L G R
 V S P A R S I Q R L D S S S R S A A

 CTG GCT GCC CCG GGC CGA CTA GAC GGC ATC CAG CGA CGA CGA CGC GCT CCG GCG
 19611 19620 19629 19638 19647 19656
 GAC CGA CGG GGC CCG GCT GAT CTG CCG TAG GTC GCT GCT GCT GCG CGA GGC CGC

 D R R G P A D L P * V A A A A R G R
 T D G A R L I C R R S L L L R E A A
 P T G P G * S A V G R C C C A R P R

 A H R S P S P * D A R R R P R R A A
 P T A R H R H D T Q G E V L G G L P
 P R P A I A I T L R G K S S A A S R

 CCC CGC ACC GCG CTA CCG CTA CCA GTC AGA CGG GAA GCT GCT CCG GCG GCT CGC
 19665 19674 19683 19692 19701 19710
 GGG GCG TGG CGC GAT GGC GAT GGT CAG TCT GCC CTT CGA CGA GGC CGC CGA GCG

 G A W R D G D G Q S A L R R G R R A
 G R G A M A M V S L P F D E A A E R
 G V A R W R W S V C P S T R P P S G

 R P C H R P P R P W R T R S S T W R
 E R A I V R H D R G D R G R R R G G
 S A P L S A T T A A M A D E V V D V

 CGA GCG CCC GTT ACT GCG CCA CCA GCG CCG GTA GCG CAG GAG CTG CTG CAG GTG

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	19719			19728			19737			19746			19755			19764		
GCT	CGC	GGG	CAA	TGA	CGC	GGT	GGT	CGC	GGC	CAT	CGC	GTC	CTC	GAC	GAC	GTC	CAC	
A	R	G	Q	*	R	G	G	R	G	H	R	V	L	D	D	V	H	
L	A	G	N	D	A	V	V	A	A	I	A	S	S	T	T	S	T	
S	R	A	M	T	R	W	S	R	P	S	R	P	R	R	R	P	P	
S	R	R	H	G	R	R	P	R	S	P	R	R	G	S	S	R	R	
H	D	G	T	V	G	A	L	D	L	L	D	D	A	A	P	G	V	
T	I	E	P	S	G	P	S	T	S	F	T	T	P	R	Q	V	S	
GCA	CTA	GAG	GCC	ACT	GGG	GCC	GCT	CCA	GCT	CTT	CCA	GCA	GCC	GGC	GAC	CTG	GCT	
	19773			19782			19791			19800		19809				19818		
CGT	GAT	CTC	CGG	TGA	CCC	CGG	CGA	GGT	CGA	GAA	GGT	CGT	CGG	CCG	CTG	GAC	CGA	
R	D	L	R	*	P	R	R	G	R	E	G	R	R	P	L	D	R	
V	I	S	G	D	P	G	E	V	E	K	V	V	G	R	W	T	D	
*	S	P	V	T	P	A	R	S	R	R	S	S	A	A	G	P	T	
P	A	P	R	V	A	P	R	R	R	R	P	R	G	C	G	A	C	
L	P	Q	D	Y	P	P	D	G	G	V	H	G	E	V	A	R	V	
S	P	S	T	T	R	R	T	A	E	S	T	A	K	W	L	G	C	
GCT	CCC	CGA	CCA	GCA	TGC	CGC	CCA	GCG	GAG	GCT	GCA	CCG	GAA	GGT	GTC	GGG	CGT	
	19827			19836			19845			19854		19863				19872		
CGA	GGG	GCT	GGT	CGT	ACG	GCG	GGT	CGC	CTC	CGA	CGT	GGC	CTT	CCA	CAG	CCC	GCA	
R	G	A	G	R	T	A	G	R	L	R	R	G	L	P	Q	P	A	
E	G	L	V	V	R	R	V	A	S	D	V	A	F	H	S	P	H	
R	G	W	S	Y	G	G	S	P	P	T	W	P	S	T	A	R	T	
P	G	G	A	R	G	A	A	R	P	R	R	R	A	S	D	W	R	
H	V	G	Q	E	V	P	Q	A	R	G	G	V	L	Q	T	G	A	
M	S	G	R	S	S	R	S	R	A	A	A	S	S	S	L	G	L	
GTA	CCT	GGG	GGA	CGA	GCT	GGC	CGA	CGC	GCG	CCG	GCG	GCT	GCT	CGA	CTC	AGG	GTC	
	19881			19890			19899			19908		19917				19926		
CAT	GGA	CCC	CCT	GCT	CGA	CCG	GCT	GCG	CGC	GGC	CGC	CGA	CGA	GCT	GAG	TCC	CAG	
H	G	P	P	A	R	P	A	A	R	G	R	R	R	A	E	S	Q	
M	D	P	L	L	D	R	L	R	A	A	A	D	E	L	S	P	S	
W	T	P	C	S	T	G	C	A	R	P	P	T	S	*	V	P	A	
V	A	C	A	A	R	C	S	P	A	R	P	G	A	P	W	P	S	
C	R	V	R	R	E	V	R	R	R	E	R	V	R	P	G	R	H	
A	G	C	V	G	S	*	V	V	A	S	A	S	G	R	A	V	T	
GCG	TGG	CGT	GTG	CGG	CGA	GAT	GTG	CTG	CCG	CGA	GCG	CCT	GGG	CGC	CCG	GTG	CCA	
	19935			19944			19953			19962		19971				19980		
CGC	ACC	GCA	CAC	GCC	GCT	CTA	CAC	GAC	GGC	GCT	CGC	GGA	CCC	GCG	GGC	CAC	GGT	
R	T	A	H	A	A	L	H	D	G	A	R	G	P	A	G	H	G	
A	P	H	T	P	L	Y	T	T	A	L	A	D	P	R	A	T	V	
H	R	T	R	R	S	T	R	R	R	S	R	T	R	G	P	R	*	
R	R	R	R	T	S	P	P	S	G	A	C	G	P	A	A	R	R	
G	G	V	A	R	V	P	R	R	V	Q	A	V	R	H	P	E	G	

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V	A	S	P	A	Y	Q	A	A	F	R	R	L	G	T	R	S	A
CTG	GCG	GCT	GCC	GCG	CAT	GAC	CCG	CCG	CTT	GGA	CGC	GTT	GGG	CCA	CGC	CGA	GCG
	19989				19998			20007			20016			20025			20034
GAC	CGC	CGA	CGG	CGC	GTA	CTG	GGC	GGC	GAA	CCT	GCG	CAA	CCC	GGT	GCG	GCT	CGC
D	R	R	R	R	V	L	G	G	E	P	A	Q	P	G	A	A	R
T	A	D	G	A	Y	W	A	A	N	L	R	N	P	V	R	L	A
P	P	T	A	R	T	G	R	R	T	C	A	T	R	C	G	S	P
R	S	*	R	P	P	R	P	R	G	G	P	T	R	R	A	T	G
G	R	D	G	R	R	G	L	V	A	V	P	R	E	D	L	Q	G
A	A	I	V	A	A	A	S	S	P	W	R	A	N	T	S	S	D
GCG	GCG	CTA	GTG	GCG	CCG	CCG	GCT	CCT	GCC	GGT	GGC	CCG	CAA	GCA	GCT	CGA	CAG
	20043				20052			20061			20070			20079			20088
CGC	CGC	GAT	CAC	CGC	GGC	GGC	CGA	GGA	CGG	CCA	CCG	GGC	GTT	CGT	CGA	GCT	GTC
R	R	D	H	R	G	G	R	G	R	P	P	G	V	R	R	A	V
A	A	I	T	A	A	A	E	D	G	H	R	A	F	V	E	L	S
P	R	S	P	R	R	P	R	T	A	T	G	R	S	S	S	C	P
A	G	R	P	R	A	S	S	G	R	S	A	P	R	V	R	R	P
R	V	G	H	D	R	V	R	D	V	L	R	Q	G	F	A	A	H
G	C	G	T	T	A	C	E	I	W	S	V	S	A	S	R	P	T
GGG	CGT	GGG	GCA	CCA	GCG	CGT	GAG	CTA	GGT	GCT	CTG	CGA	CCG	GCT	TGC	GCC	GCA
	20097				20106			20115			20124			20133			20142
CCC	GCA	CCC	CGT	GGT	CGC	GCA	CTC	GAT	CCA	CGA	GAC	GCT	GGC	CGA	ACG	CGG	CGT
P	A	P	R	G	R	A	L	D	P	R	D	A	G	R	T	R	R
P	H	P	V	V	A	H	S	I	H	E	T	L	A	E	R	G	V
R	T	P	W	S	R	T	R	S	T	R	R	W	P	N	A	A	W
P	R	T	R	R	V	S	A	V	A	C	G	A	R	P	G	S	R
L	V	H	E	D	S	R	R	*	P	A	V	L	G	L	G	P	G
S	S	T	N	T	P	G	V	S	R	R	L	W	G	S	A	R	V
CCT	CCT	GCA	CAA	GCA	GCC	TGG	CTG	CGA	TGC	CGC	GTT	GGT	CGG	GCT	CCG	GGC	CTG
	20151				20160			20169			20178			20187			20196
GGA	GGA	CGT	GTT	CGT	CGG	ACC	GAC	GCT	ACG	GCG	CAA	CCA	GCC	CGA	GGC	CCG	GAC
G	G	R	V	R	R	T	D	A	T	A	Q	P	A	R	G	P	D
E	D	V	F	V	G	P	T	L	R	R	N	Q	P	E	A	R	T
R	T	C	S	S	D	R	R	Y	G	A	T	S	P	R	P	G	P
G	R	R	R	P	R	R	G	S	G	R	R	S	R	P	S	T	P
E	A	G	G	H	A	G	G	V	A	V	A	H	A	H	V	P	R
K	R	A	A	T	P	A	A	W	Q	W	P	T	L	T	S	Q	D
GAA	GGC	GCG	GCG	GCA	CCC	GCG	GCG	GGT	GAC	GGT	GCC	GCA	CTC	GCA	CCT	GAC	CAG
	20205				20214			20223			20232			20241			20250
CTT	CCG	CGC	CGC	CGT	GGG	CGC	CGC	CCA	CTG	CCA	CGG	CGT	GAG	CGT	GGA	CTG	GTC
L	P	R	R	R	G	R	R	P	L	P	R	R	E	R	G	L	V
F	R	A	A	V	G	A	A	H	C	H	G	V	S	V	D	W	S
S	A	P	P	W	A	P	P	T	A	T	A	*	A	W	T	G	R

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      A  G  A  S  R  S  G  R  L  G  A  A  R  G  R  A  A  G
      R  E  L  R  V  P  V  E  F  D  Q  R  G  V  G  P  L  V
      A  S  W  G  F  P  F  R  S  T  R  G  G  *  G  Q  C  C
-----
CCG CGA GGT CGG CTT GCC CTT GGA GCT TCA GGA CGG CGG GAT GGG GAC CGT CGT
      20259          20268          20277          20286          20295          20304
GGC GCT CCA GCC GAA CGG GAA CCT CGA AGT CCT GCC GCC CTA CCC CTG GCA GCA
-----
      G  A  P  A  E  R  E  P  R  S  P  A  A  L  P  L  A  A
      A  L  Q  P  N  G  N  L  E  V  L  P  P  Y  P  W  Q  H
      R  S  S  R  T  G  T  S  K  S  C  R  P  T  P  G  S  T
-----
      G  A  T  A  N  W  R  R  P  A  L  P  R  A  R  G  R  R
      A  R  Q  P  T  G  D  G  P  R  S  R  G  L  A  A  V  V
      R  G  S  H  R  E  M  A  P  A  R  A  A  S  R  P  W  S
-----
GGC GGG CGA CAC CGC AAG GTA GCG GCC CCG CGC TCG CCG GCT CGC GCC GGT GCT
      20313          20322          20331          20340          20349          20358
CCG CCC GCT GTG GCG TTC CAT CGC CGG GGC GCG AGC GGC CGA GCG CGG CCA CGA
-----
      P  P  A  V  A  F  H  R  R  G  A  S  G  R  A  R  P  R
      R  P  L  W  R  S  I  A  G  A  R  A  A  E  R  G  H  D
      A  R  C  G  V  P  S  P  G  R  E  R  P  S  A  A  T  T
-----
      R  S  G  C  A  A  P  C  A  R  R  R  R  P  C  R  G  A
      D  V  G  V  R  Q  Q  A  R  G  A  A  D  R  A  A  V  Q
      T  S  E  W  V  S  S  P  V  G  P  P  T  A  P  L  S  R
-----
GCA GCT GAG GGT GTG CGA CGA CCC GTG CGG GCC GCC GCA GCG CCC GTC GCT GGA
      20367          20376          20385          20394          20403          20412
CGT CGA CTC CCA CAC GCT GCT GGG CAC GCC CGG CGG CGT CGC GGG CAG CGA CCT
-----
      R  R  L  P  H  A  A  G  H  A  R  R  R  R  G  Q  R  P
      V  D  S  H  T  L  L  G  T  P  G  G  V  A  G  S  D  L
      S  T  P  T  R  C  W  A  R  P  A  A  S  R  A  A  T  C
-----
      A  T  A  C  C  A  P  R  R  C  G  G  T  G  P  C  G  R
      P  Q  P  V  A  R  Q  V  V  V  A  A  R  V  R  A  A  V
      R  S  H  C  L  V  S  S  S  S  L  R  G  Y  G  P  L  W
-----
CGC CGA CAC CGT GTC GTG CGA CCT GCT GCT GTC GGC GGG CAT GGG CCC GTC GGT
      20421          20430          20439          20448          20457          20466
GCG GCT GTG GCA CAG CAC GCT GGA CGA CGA CAG CCG CCC GTA CCC GGG CAG CCA
-----
      A  A  V  A  Q  H  A  G  R  R  Q  P  P  V  P  G  Q  P
      R  L  W  H  S  T  L  D  D  D  S  R  P  Y  P  G  S  H
      G  C  G  T  A  R  W  T  T  T  A  A  R  T  R  A  A  T
-----
      G  *  R  R  P  S  R  G  P  R  R  A  P  P  *  T  G  P
      G  E  V  A  H  L  D  D  R  G  G  H  Q  R  D  R  E  Q
      A  R  L  P  T  S  I  T  G  A  A  T  S  A  T  V  N  R
-----
GCG GGA GTT GCC GCA CCT CTA GCA GGG CCG GCG GCA CGA CCG CCA GTG CAA GGA
      20475          20484          20493          20502          20511          20520
CGC CCT CAA CGG CGT GGA GAT CGT CCC GGC CGC CGT GCT GGC GGT CAC GTT CCT
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205220 "9484800"

R P Q R R G D R P G R R A G G H V P
A L N G V E I V P A A V L A V T F L
P S T A W R S S R P P C W R S R S W

P R R R P R L A G R G G P C S S S G
R G A G L A F L A A G E L V H R H G
A A P A S P S S R R A R W S M V I V

CCG CCG GCC GCG GCT CCC GCT TCT CGC GGC GCG GGA GGT CCT GTA CTG CTA CTG
20529 20538 20547 20556 20565 20574
GGC GGC CGG CGC CGA GGG CGA AGA GCG CCG CGC CCT CCA GGA CAT GAC GAT GAC

G G R R R G R R A P R P P G H D D D
A A G A E G E E R R A L Q D M T M T
R P A P R A K S A A P S R T * R * P

G P A S P P D A A S G P R G R P R P
V R H Q R R T L P L D L D D A L A L
W G T S V A P * R C I W T T R S P S

GGT GGG CCA CGA CTG CCG CCC AGT CGC CGT CTA GGT CCA GCA GGC GCT CCC GCT
20583 20592 20601 20610 20619 20628
CCA CCC GGT GCT GAC GGC GGG TCA GCG GCA GAT CCA GGT CGT CCG CGA GGG CGA

P P G A D G G S A A D P G R P R G R
H P V L T A G Q R Q I Q V V R E G E
T R C * R R V S G R S R S S A R A R

P A A P R G S P R P R R R G S G R R
H H P Q G G P R D R V G G V R V G G
T T R S A E R V T A S A A S G F G A

CCA CCA CGC CGA CCG GAG GGC CTG CCA GCG CCT GCG GCG GCT GGG CTT GGG GCG
20637 20646 20655 20664 20673 20682
GGT GGT GCG GCT GGC CTC CCG GAC GGT CGC GGA CGC CGC CGA CCC GAA CCC CGC

G G A A G L P D G R G R R R P E P R
V V R L A S R T V A D A A D P N P A
W C G W P P G R S R T P P T R T P P

A R G H R P G S P R A P G R R D P P
P E D M G L G P R G R R V E G T Q R
Q S T W A S A R V A A G S R A P R A

GAC CGA GCA GGT ACG GCT CCG GGC CTG CCG GCG CGG CCT GGA GCG GCC AGA CCG
20691 20700 20709 20718 20727 20736
CTG GCT CGT CCA TGC CGA GGC CCG GAC GGC CGC GCC GGA CCT CGC CGG TCT GGC

L A R P C R G P D G R A G P R R S G
W L V H A E A R T A A P D L A G L A
G S S M P R P G R P R R T S P V W R

A T A A P G P R A G A R V P R G R G
R P R Q Q V R A L V P E F R G V G A
A R D S S S G P S C R S S G A S G P

CCG CGC CAG CGA CGA CCT GGG CCC GCT CGT GGC CGA GCT TGG CCG GCT GGG GCC

205420 9484300

20745				20754				20763				20772				20781				20790			
GGC	GCG	GTC	GCT	GCT	GGA	CCC	GGG	CGA	GCA	CCG	GCT	CGA	ACC	GGC	CGA	CCC	CGG						

G	A	V	A	A	G	P	G	R	A	P	A	R	T	G	R	P	R						
A	R	S	L	L	D	P	G	E	H	R	L	E	P	A	D	P	G						
R	G	R	C	W	T	R	A	S	T	G	S	N	R	P	T	P	A						

P	R	G	A	A	P	R	P	P	R	V	R	S	R	N	R	N	S						
Q	D	G	P	P	Q	G	L	H	A	Y	G	R	G	T	E	I	P						
R	T	E	R	R	S	A	S	T	P	T	G	E	V	P	K	S	Q						

GGA	CCA	GAG	GGC	CGC	CGA	CCG	GCT	CCA	CCC	GCA	TGG	GAG	CTG	GCC	AAA	GCT	AAC						
20799				20808				20817				20826				20835				20844			
CCT	GGT	CTC	CCG	GCG	GCT	GGC	CGA	GGT	GGG	CGT	ACC	CTC	GAC	CGG	TTT	CGA	TTG						

P	G	L	P	A	A	G	R	G	G	R	T	L	D	R	F	R	L						
L	V	S	R	R	L	A	E	V	G	V	P	S	T	G	F	D	W						
W	S	P	G	G	W	P	R	W	A	Y	P	R	P	V	S	I	G						

R	R	A	V	T	R	R	D	R	H	V	A	R	E	P	A	R	A						
A	D	L	S	Q	G	G	T	E	T	Y	Q	V	S	L	H	E	R						
L	T	S	R	S	D	A	P	R	P	T	S	C	A	*	T	S	E						

CTC	GCA	GCT	CGC	TGA	CAG	GCG	GCC	AGA	GCC	ACA	TGA	CGT	GCG	AGT	CCA	CGA	GAG						
20853				20862				20871				20880				20889				20898			
GAG	CGT	CGA	GCG	ACT	GTC	CGC	CGG	TCT	CGG	TGT	ACT	GCA	CGC	TCA	GGT	GCT	CTC						

E	R	R	A	T	V	R	R	S	R	C	T	A	R	S	G	A	L						
S	V	E	R	L	S	A	G	L	G	V	L	H	A	Q	V	L	S						
A	S	S	D	C	P	P	V	S	V	Y	C	T	L	R	C	S	R						

R	R	R	T	R	P	G	A	A	P	R	R	S	T	S	R	A	P						
G	V	G	R	G	P	G	R	Q	Q	V	G	H	H	R	D	R	R						
G	S	A	E	D	Q	A	G	S	S	S	A	T	I	D	I	A	G						

CGG	GCT	GCG	GAG	CAG	GAC	CCG	GGG	CGA	CGA	CCT	GCG	GCA	CTA	CAG	CTA	GCG	CGG						
20907				20916				20925				20934				20943				20952			
GCC	CGA	CGC	CTC	GTC	CTG	GGC	CCC	GCT	GCT	GGA	CGC	CGT	GAT	GTC	GAT	CGC	GCC						

A	R	R	L	V	L	G	P	A	A	G	R	R	D	V	D	R	A						
P	D	A	S	S	W	A	P	L	L	D	A	V	M	S	I	A	P						
P	T	P	R	P	G	P	R	C	W	T	P	*	C	R	S	R	R						

R	R	R	P	G	G	A	A	G	C	P	R	A	R	R	R	S	*						
G	G	E	H	A	E	R	L	E	A	H	D	H	V	D	V	L	D						
A	A	K	T	P	R	G	C	S	R	M	T	T	C	T	S	S	I						

CCG	GCG	GAA	GCA	CCC	GGA	GGG	CGT	CGA	GGC	GTA	CCA	GCA	CGT	GCA	GCT	GCT	CTA						
20961				20970				20979				20988				20997				21006			
GGC	CGC	CTT	CGT	GGG	CCT	CCC	GCA	GCT	CCG	CAT	GGT	CGT	GCA	CGT	CGA	CGA	GAT						

G	R	L	R	G	P	P	A	A	P	H	G	R	A	R	R	R	D						
A	A	F	V	G	L	P	Q	L	R	M	V	V	H	V	D	E	I						
P	P	S	W	A	S	R	S	S	A	W	S	C	T	S	T	R	S						

R	R	R	C	A	V	P	P	P	S	P	R	P	R	A	R	D	G						
G	D	V	A	R	W	R	L	R	R	R	D	L	D	R	E	I	G						

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V	T	S	P	V	G	G	S	A	A	V	T	S	T	A	S	S	G
GTG	GCA	GCT	GCC	GTG	CGG	TGG	CCT	CCG	CCG	CTG	CCA	GCT	CCA	GCG	CGA	GCT	AGG
	21015				21024			21033		21042			21051			21060	
CAC	CGT	CGA	CGG	CAC	GCC	ACC	GGA	GGC	GGC	GAC	GGT	CGA	GGT	CGC	GCT	CGA	TCC
H	R	R	R	H	A	T	G	G	G	D	G	R	G	R	A	R	S
T	V	D	G	T	P	P	E	A	A	T	V	E	V	A	L	D	P
P	S	T	A	R	H	R	R	R	R	R	S	R	S	R	S	I	P
R	R	R	C	R	A	R	G	P	*	P	R	P	P	V	G	P	P
A	D	G	V	G	H	V	G	Q	D	R	V	P	L	S	A	R	H
R	T	A	S	V	T	C	A	R	T	V	S	P	S	P	R	G	T
GGC	GCA	GCG	GCT	GTG	GCA	CGT	GCG	GGA	CCA	GTG	CCT	GCC	CCT	CCC	TGC	GGG	CCA
	21069				21078			21087		21096			21105			21114	
CCG	CGT	CGC	CGA	CAC	CGT	GCA	CGC	CCT	GGT	CAC	GGA	CGG	GGA	GGG	ACG	CCC	GGT
P	R	R	R	H	R	A	R	P	G	H	G	R	G	G	T	P	G
R	V	A	D	T	V	H	A	L	V	T	D	G	E	G	R	P	V
A	S	P	T	P	C	T	P	W	S	R	T	G	R	D	A	R	W
S	G	A	R	G	A	S	G	P	P	R	A	A	P	R	A	P	C
R	A	Q	A	A	Q	A	V	R	H	D	L	L	R	G	R	R	V
A	L	R	R	P	R	R	*	G	T	T	S	C	G	A	A	G	S
CCG	CTC	GGA	CGC	GCC	GGA	CGC	GAT	GGG	CCA	CCA	GCT	CGT	CGG	CCG	GCG	CGG	CCT
	21123				21132			21141		21150			21159			21168	
GGC	GAG	CCT	GCG	CGG	CCT	GCG	CTA	CCC	GGT	GGT	CGA	GCA	GCC	GGC	CGC	GCC	GGA
G	E	P	A	R	P	A	L	P	G	G	R	A	A	G	R	A	G
A	S	L	R	G	L	R	Y	P	V	V	E	Q	P	A	A	P	D
R	A	C	A	A	C	A	T	R	W	S	S	S	R	P	R	R	T
R	R	A	P	R	R	R	P	R	P	R	P	T	T	R	P	D	T
G	V	L	R	A	A	V	R	V	R	V	H	H	R	E	R	T	Q
V	S	S	G	P	P	S	A	S	A	S	T	T	D	N	A	P	R
GTG	GCT	GCT	CGG	CCC	GCC	GCT	GCG	CCT	GCG	CCT	GCA	CCA	CAG	CAA	GCG	CCC	AGA
	21177				21186			21195		21204			21213			21222	
CAC	CGA	CGA	GCC	GGG	CGG	CGA	CGC	GGA	CGC	GGA	CGT	GGT	GTC	GTT	CGC	GGG	TCT
H	R	R	A	G	R	R	R	G	R	G	R	G	V	V	R	G	S
T	D	E	P	G	G	D	A	D	A	D	V	V	S	F	A	G	L
P	T	S	R	A	A	T	R	T	R	T	W	C	R	S	R	V	C
A	P	P	A	A	N	G	P	A	R	R	P	A	R	A	S	R	A
R	R	L	L	Q	T	G	P	H	E	V	L	H	A	L	L	D	R
D	G	S	S	S	R	E	R	T	S	S	S	T	R	S	C	I	A
CAG	CGG	CCT	CCT	CGA	CGC	AAG	GGC	CCA	CGA	GCT	GCT	CCA	CGC	GCT	CGT	CTA	GCG
	21231				21240			21249		21258			21267			21276	
GTC	GCC	GGA	GGA	GCT	GCG	TTC	CCG	GGT	GCT	CGA	CGA	GGT	GCG	CGA	GCA	GAT	CGC
V	A	G	G	A	A	F	P	G	A	R	R	G	A	R	A	D	R
S	P	E	E	L	R	S	R	V	L	D	E	V	R	E	Q	I	A
R	R	R	S	C	V	P	G	C	S	T	R	C	A	S	R	S	R

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P S A V R G W P G A R E G G A P P A
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C S I R S A G V A R C T R R G S T S
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21285 21294 21303 21312 21321 21330
GCA GGA GAT GCG ACT CGC CCC CAC GGC CCT GCA CGT TCG CCG CCC GCT GGT GGA
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Q E M R L A P T A L H V R R P L V E
R R C D S P P R P C T F A A R W W S
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C P S S E T I V T T T R R R S S F R
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E A P V H R G V D E P L Q G G D A V
R P R S T G A L M K Q F S G V M L S
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CCT CGG CCG GGA CGT GCC GGC CAA CAT CTT CTG GAA GCT GCC CAC CAT CAG CGA
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S A G T C R P T S S G S C P P S A T
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D D I V Q G F A E R F V R R R V A M
M T S * R V S R R V S C G V A S P W
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21447 21456 21465 21474 21483 21492
CAT CGT CGA TCA CCT GAC CGA ACG CCT CAC GGA ACA CCC GAC GGC GGA CGG CCA
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I V D H L T E R L T E H P T A D G H
S S I T * P N A S R N T R R R T A M
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R G S R V S E T V * T L L P R R P S
A D Q V C Q S R L E H * C P V A P H
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ACG CAG GAC TTG CGT GAC TGA GGC ATT GAG TAC AGT CGT CCC CTG CCG CCC CAC
21501 21510 21519 21528 21537 21546
TGC GTC CTG AAC GCA CTG ACT CCG TAA CTC ATG TCA GCA GGG GAC GGC GGG GTG

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21771	21780	21789	21798	21807	21816
ACT GGT CCC GGT GGC CAA TAG AAC TGT TCT CTC CTA TGT ACT GGA TTC CAT CAA					
T G P G G Q * N C S L L C T G F H Q					
L V P V A N R T V L S Y V L D S I K					
W S R W P I E L F S P M Y W I P S R					
P R F I P P R S Q R R P S R P P S G					
L G S Y R L D P N D D P R G R R L D					
S A P I D S T P I T T P A V A A S I					
CCT CCG GCC TTA TAG CCT CCA GCC CTA ACA GCA GCC CCG CTG GCG CCG CCT CTA					
21825 21834 21843 21852 21861 21870					
GGA GGC CGG AAT ATC GGA GGT CGG GAT TGT CGT CGG GGC GAC CGC GGC GGA GAT					
G G R N I G G R D C R R G D R G G D					
E A G I S E V G I V V G A T A A E I					
R P E Y R R S G L S S G R P R R R S					
P K R P L R R P T R G P R * R C G A					
L S G H S V A R L E A Q V D G V D L					
W A E T P S P A S N P R S T V * M W					
GGT CCG AAG GCA CCC TCT GCC GCG CCT CAA GCC GGA CCT GCA GTG GAT GTA GGT					
21879 21888 21897 21906 21915 21924					
CCA GGC TTC CGT GGG AGA CGG CGC GGA GTT CGG CCT GGA CGT CAC CTA CAT CCA					
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Q A S V G D G A E F G L D V T Y I Q					
R L P W E T A R S S A W T S P T S S					
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L V G R A P Q G V G H E H G T V E E					
C S A G R P S A S A T S T D R S K R					
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21933 21942 21951 21960 21969 21978					
GCA GGA CGC CCC GCG CGG GCT GGC CGA CGC CGT GCT CGT GTC CCG TGA CTT CCT					
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Q D A P R G L A D A V L V S R D F L					
R T P R A G W P T P C S C P V T S S					
R R R S R * T G P R C S R R P R C R					
A V V V E D H V Q A V V V D H V A D					
P S S S K T M Y R P S L * T T S P M					
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G D D D F V M Y L G D N Y V V D G I					
A T T T S S C T W A T T T S W T A S					
R S R P P S G G R C A R R A P * A R					
D V E H R V E A A V L G G R L D H E					

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T	S	K	T	A	S	K	R	R	S	L	G	A	A	C	T	M	S
GCA	GCT	GAA	GCA	CCG	CCT	GAA	GGC	GGC	GCT	GTT	CGG	GCG	GCG	CGT	CCA	GTA	CGA
22041		22050		22059		22068		22077		22086							
CGT	CGA	CTT	CGT	GGC	GGA	CTT	CCG	CCG	CGA	CAA	GCC	CGC	CGC	GCA	GGT	CAT	GCT
R	R	L	R	G	G	L	P	P	R	Q	A	R	R	A	G	H	A
V	D	F	V	A	D	F	R	R	D	K	P	A	A	Q	V	M	L
S	T	S	W	R	T	S	A	A	T	S	P	P	R	R	S	C	S
G	P	R	R	G	A	C	T	R	R	P	R	V	Q	R	S	R	G
G	P	D	G	V	R	A	P	E	A	H	G	F	K	V	L	V	A
A	R	T	A	S	G	R	L	N	P	T	A	S	S	S	S	F	P
CGC	GGC	CCA	GCG	GCT	GGG	CGC	GTC	CAA	GCC	GCA	CCG	GCT	TGA	ACT	GCT	CTT	GCC
22095		22104		22113		22122		22131		22140							
CGC	CCG	GGT	CGC	CGA	CCC	GCG	CAG	GTT	CGG	CGT	GGC	CGA	ACT	TGA	CGA	GAA	CGG
R	P	G	R	R	P	A	Q	V	R	R	G	R	T	*	R	E	R
A	R	V	A	D	P	R	R	F	G	V	A	E	L	D	E	N	G
P	G	S	P	T	R	A	G	S	A	W	P	N	L	T	R	T	A
P	S	R	P	R	P	S	A	G	P	G	W	S	R	G	P	S	R
P	H	G	R	D	H	L	L	G	L	V	G	P	A	V	Q	R	D
R	T	V	A	T	T	S	F	G	W	S	G	L	L	S	R	A	I
GGC	CCA	CTG	GCG	CCA	GCA	CCT	CTT	CGG	GGT	CCT	GGG	GTC	CTC	GCT	GGA	CCG	CTA
22149		22158		22167		22176		22185		22194							
CCG	GGT	GAC	CGC	GGT	CGT	GGA	GAA	GCC	CCA	GGA	CCC	CAG	GAG	CGA	CCT	GGC	GAT
P	G	D	R	G	R	G	E	A	P	G	P	Q	E	R	P	G	D
R	V	T	A	V	V	E	K	P	Q	D	P	R	S	D	L	A	I
G	*	P	R	S	W	R	S	P	R	T	P	G	A	T	W	R	S
R	R	T	R	R	*	S	P	R	A	R	P	R	P	R	C	G	A
D	A	H	V	G	E	A	R	G	H	V	L	G	H	G	A	D	P
T	P	T	Y	A	K	L	E	A	T	C	S	A	T	A	P	M	R
GCA	GCC	GCA	CAT	GCG	GAA	GTC	GAG	CCG	GCA	CGT	GCT	CCG	GCA	CCG	GCC	GTA	GGC
22203		22212		22221		22230		22239		22248							
CGT	CGG	CGT	GTA	CGC	CTT	CAG	CTC	GGC	CGT	GCA	CGA	GGC	CGT	GGC	CGG	CAT	CCG
R	R	R	V	R	L	Q	L	G	R	A	R	G	R	G	R	H	P
V	G	V	Y	A	F	S	S	A	V	H	E	A	V	A	G	I	R
S	A	C	T	P	S	A	R	P	C	T	R	P	W	P	A	S	G
T	R	A	S	R	A	P	S	*	R	R	G	A	T	A	P	R	G
R	G	P	P	V	L	Q	L	D	G	V	G	Q	L	P	Q	G	V
G	D	Q	R	F	S	S	S	I	V	S	A	R	C	H	S	A	S
CGG	CAG	GAC	CGC	CTT	GCT	CGA	CCT	CTA	GTG	GCT	GCG	GGA	CGT	CAC	CGA	CCG	GCT
22257		22266		22275		22284		22293		22302							
GCC	GTC	CTG	GCG	GAA	CGA	GCT	GGA	GAT	CAC	CGA	CGC	CCT	GCA	GTG	GCT	GGC	CGA
A	V	L	A	E	R	A	G	D	H	R	R	P	A	V	A	G	R
P	S	W	R	N	E	L	E	I	T	D	A	L	Q	W	L	A	D
R	P	G	G	T	S	W	R	S	P	T	P	C	S	G	W	P	T

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22311 22320 22329 22338 22347 22356
CCA CGG GCA CGA GGT CGG CTC CAC GGT GAT CGA CCG GTA CTG GAA GGA CGT CGC
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P R A R G R L H G D R P V L E G R R
H G H E V G S T V I D R Y W K D V A
T G T R S A P R * S T G T G R T S R
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A D G V D Q L H V P V Q Q L G Q L G
L T V S T R S I F R C R S S D R S V
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CTC GCA GTG GCT GCA GGA CCT CTA CTT GGC CGT GGA CGA CCT CAG GGA CCT CTG
22365 22374 22383 22392 22401 22410
GAG CGT CAC CGA CGT CCT GGA GAT GAA CCG GCA CCT GCT GGA GTC CCT GGA GAC
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E R H R R P G D E P A P A G V P G D
S V T D V L E M N R H L L E S L E T
A S P T S W R * T G T C W S P W R P
---
C R R R P P R P W R V P P G L R P P
A D V A L H V L G A F Q H A S D H H
R M S P S T S S A L S S T P R T T T
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GGC GTA GCT GCC GCT CCA CCT GCT CCG GTC GCT TGA CCA CCC GGC TCA GCA CCA
22419 22428 22437 22446 22455 22464
CCG CAT CGA CGG CGA GGT GGA CGA GGC CAG CGA ACT GGT GGG CCG AGT CGT GGT
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P H R R R G G R G Q R T G G P S R G
R I D G E V D E A S E L V G R V V V
A S T A R W T R P A N W W A E S W W
---
P P P S S R R S G C R R D R R * R G
L R P R L D G A G A D D T G G D D A
S A P A F I E P E R M T P G A T M P
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CCT CCG CCC CCG CTT CTA GAG GCC GAG GGC GTA GCA GCC AGG GCG GCA GTA GCC
22473 22482 22491 22500 22509 22518
GGA GGC GGG GGC GAA GAT CTC CGG CTC CCG CAT CGT CGG TCC CGC CGT CAT CGG
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E A G A K I S G S R I V G P A V I G
R R G R R S P A P A S S V P P S S A
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R V R H H L V G V E T G E G G D L A
G S V T T C S E * R P G K V E M S P
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CCC GGA CAC GGT GGT GCA GGA CTC CTA CCT CGG TCC CTT CAC CTC CAT CGA GGG

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S G P R A C R S G T S S R A A H R K
V A P D R V A L D L V R D H Q T A S
L Q R T A C L S I W Y E I T S R P A

GTT GAC GGC CCA GCG CGT GTC GCT CTA GGT CAT GAG CTA GCA CGA CGC ACC GCG
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CAA CTG CCG GGT CGC GCA CAG CGA GAT CCA GTA CTC GAT CGT GCT GCG TGG CGC

Q L P G R A Q R D P V L D R A A W R
N C R V A H S E I Q Y S I V L R G A
T A G S R T A R S S T R S C C V A L

S R P L R G H R P S P S R G P S R P
R D L S D G T D L V R H D A P L G L
E I S P T A R T S S E T I P R S V S

AAG CTA GCT CCC TCA GCG GGC ACA GCT CCT GAG CCA CTA GCC GGC CCT CTG GCT
22635 22644 22653 22662 22671 22680
TTC GAT CGA GGG AGT CGC CCG TGT CGA GGA CTC GGT GAT CGG CCG GGA GAC CGA

F D R G S R P C R G L G D R P G D R
S I E G V A R V E D S V I G R E T E
R S R E S P V S R T R * S A G R P R

S R R G G S T S R A G A P A P L G C
H V G G G P R R G R V P Q H Q S V V
T F A A G R V D V A C R S T S P S W

CCA CTT GCG GCG GGG GGC CTG CAG CTG GCG CGT GGC CGA CCA CGA CCC TCT GGT
22689 22698 22707 22716 22725 22734
GGT GAA CGC CGC CCC CCG GAC GTC GAC CGC GCA CCG GCT GGT GCT GGG AGA CCA

G E R R P P D V D R A P A G A G R P
V N A A P R T S T A H R L V L G D H
* T P P P G R R P R T G W C W E T T

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A P D L D A T S C A Q P P P P R S P
L R T W T P P Q V P R R L R P V R R

GTC GGC CCA GGT CCA GCC GCC AAC TTG TCC GGA CGC CTC CGC CCC CTG CGC TGC
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Q P G P G R R L N R P A E A G D A T
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A G S R S A V E Q A C G G G G R D G

F A A * P F M R S P L A P A S R P R
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H L R S V P V H S V A A R T R F P S

CAC TTC CGC CGA ATG CCC TTG TAC GCT CTG CCG TCG CGC CCA CGC CTT GCC CCT

22797 22806 22815 22824 22833 22842
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 E G G L R E H A R R Q R G C G T G T

 C T R T M P P A P K M P E W Y T R S
 A R G P * R H L P S * R S G T R A R
 P V D Q D D T S R A E D A G L V H A

 GCC GTG CAG GAC CAG TAG CCA CCT CGC CCG AAG TAG CCG AGG GTC ATG CAC GCG
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 F Q D P V A I R R P H G H Q V L Q G

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 R R S G P S G P A P R R G T C R R A
 V G P V Q R V Q L R D G A P V G E H

 ATG CGG CCC TTG GAC CGC TTG GAC CTC GGC CAG CGG CCG GCC ATG TGG AAG CAC
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 TAC GCC GGG AAC CTG GCG AAC CTG GAG CCG GTC GCC GGC CGG TAC ACC TTC GTG

 Y A G N L A N L E P V A G R Y T F V
 T P G T W R T W S R S P A G T P S C
 R R E P G E P G A G R R P V H L R A

 P S M Q S A L S S A S T T G P W S R
 R R C R R H W A A R R P P G R G R D
 V A V D A I G P Q E G L H D G A V I

 GTG CCG CTG TAG ACG CTA CGG TCC GAC GAG CGG CTC CAC CAG GGG CCG GTG CTA
 23013 23022 23031 23040 23049 23058
 CAC GGC GAC ATC TGC GAT GCC AGG CTG CTC GCC GAG GTG GTC CCC GGC CAC GAT

 H G D I C D A R L L A E V V P G H D
 T A T S A M P G C S P R W S P A T I
 R R H L R C Q A A R R G G P R P R S

 T T L K A A S D C T S R D I A S A A
 P P * S R P R I A R R G T S R R R P

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Q H D V E R G F R V D V P R D G V R

 GAC CAC CAG TTG AAG CGC CGG CTT AGC GTG CAG CTG GCC AGC TAG CGG CTG CGC
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 CTG GTG GTC AAC TTC GCG GCC GAA TCG CAC GTC GAC CGG TCG ATC GCC GAC GCG

 L V V N F A A E S H V D R S I A D A
 W W S T S R P N R T S T G R S P T R
 G G Q L R G R I A R R P V D R R R G

 G N M R V L T C P T W A S M C T H R
 A T * V Y W H A P R G P V * A P T G
 R R E Y T G I H L A D L C E H L H A

 CGC GGC AAG TAT GCA TGG TTA CAC GTC CCG CAG GTC CGT GAG TAC GTC CAC ACG
 23121 23130 23139 23148 23157 23166
 GCG CCG TTC ATA CGT ACC AAT GTG CAG GGC GTC CAG GCA CTC ATG CAG GTG TGC

 A P F I R T N V Q G V Q A L M Q V C
 R R S Y V P M C R A S R H S C R C A
 A V H T Y Q C A G R P G T H A G V P

 S A P V A L I T C T E V S S T Y P L
 P P R C P W S R A P R W R R P T R C
 Q L G A R G P D H L D G G V L H V A

 GAC CTC CGG CCG TGC CGG TCC TAG CAC GTC CAG AGG TGG CTG CTC CAC ATG CCG
 23175 23184 23193 23202 23211 23220
 CTG GAG GCC GGC ACG GCC AGG ATC GTG CAG GTC TCC ACC GAC GAG GTG TAC GGC

 L E A G T A R I V Q V S T D E V Y G
 W R P A R P G S C R S P P T R C T A
 G G R H G Q D R A G L H R R G V R Q

 M S V P E Q S S S A G I A G L E G *
 C R S P S R P R P R A S R G W S A R
 A D L R A G P V L V R R D G G V R G

 TCG TAG CTC TGC CCG AGG ACC CTG CTC CTG CGC GGC TAG CGG GGG TTG AGC GGC
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 AGC ATC GAG ACG GGC TCC TGG GAC GAG GAC GCG CCG ATC GCC CCC AAC TCG CCC

 S I E T G S W D E D A P I A P N S P
 A S R R A P G T R T R R S P P T R P
 H R D G L L G R G R A D R P Q L A L

 A A D L A P P S M T A R A * A R V W
 R P T W P P R R C P R G R R R G C G
 V R R G L R A A V H D G E G V G A G

 ATG CGC CGC AGG TTC CGC CCG CCG CTG TAC CAG CGG GAG CGG ATG CGG GCG TGG
 23283 23292 23301 23310 23319 23328
 TAC GCG GCG TCC AAG GCG GGC GGC GAC ATG GTC GCC CTC GCC TAC GCC CGC ACC

 Y A A S K A G G D M V A L A Y A R T
 T R R P R R A A T W S P S P T P A P
 R G V Q G G R R H G R P R L R P H P

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P S G T L T V R H P L L * P G * * N
H A A P S R S A T R C C S R A R D T
M P Q R H A H R P A A V V V P G I L
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GTA CCC GAC GGC CAC TCG CAC TGC GCC ACG CCG TTG TTG ATG CCC GGG ATA GTC
    23337      23346      23355      23364      23373      23382
CAT GGG CTG CCG GTG AGC GTG ACG CGG TGC GGC AAC AAC TAC GGG CCC TAT CAG
---
H G L P V S V T R C G N N Y G P Y Q
M G C R * A * R G A A T T T G P I S
W A A G E R D A V R Q Q L R A L S V

G S F T T G S N V V R S S S P W L M
G P S P R E A T * W G A A P R G C C
E R L L D N R Q E G G P Q Q V A V A
---
AAG GGC CTC TTC CAG CAA GGC GAC AAG TGG TGG GCC GAC GAC CTG CCG GTG TCG
    23391      23400      23409      23418      23427      23436
TTC CCG GAG AAG GTC GTT CCG CTG TTC ACC ACC CGG CTG CTG GAC GGC CAC AGC
---
F P E K V V P L F T T R L L D G H S
S R R R S F R C S P P G C W T A T A
P G E G R S A V H H P A A G R P Q H

G S Y P S P P L T R S Q T C T D S W
G A T R P H R C R G P S P A R T R G
D R Q V P I A A V D P V P H V H G V
---
TAG GGC GAC ATG CCC CTA CCG CCG TTG CAG GCC CTG ACC CAC GTG CAC AGG CTG
    23445      23454      23463      23472      23481      23490
ATC CCG CTG TAC GGG GAT GGC GGC AAC GTC CGG GAC TGG GTG CAC GTG TCC GAC
---
I P L Y G D G G N V R D W V H V S D
S R C T G M A A T S G T G C T C P T
P A V R G W R Q R P G L G A R V R P

T R P M R S T A S R P S G P C T * W
R A P C G A P R R V R A A P A P R G
V H P A D P Q D G F A P Q R P L D V
---
GTG CAC GCC CCG TAG GCC GAC CAG CGG CTT GCG CCC GAC GGC CCC GTC CAG ATG
    23499      23508      23517      23526      23535      23544
CAC GTG CGG GGC ATC CGG CTG GTC GCC GAA CGC GGG CTG CCG GGG CAG GTC TAC
---
H V R G I R L V A E R G L P G Q V Y
T C G A S G W S P N A G C R G R S T
R A G H P A G R R T R A A G A G L P

M A P E A S S V L R S S V C C S S S
C R P S P R A S W D P V S A V V A P
V D R A R G L Q G I Q F Q R L L Q Q
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GTG TAG CGC CCG AGC CGG CTC GAC TGG TTA GAC CTT GAC TGC GTT GTT GAC GAC
    23553      23562      23571      23580      23589      23598
CAC ATC GCG GGC TCG GCC GAG CTG ACC AAT CTG GAA CTG ACG CAA CAA CTG CTG

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H I A G S A E I T N L E L T Q Q L L
T S R A R P S * P I W N * R N N C W
H R G L G R A D Q S G T D A T T A G

A R P A P Q S R T S R T G S R F P C
R G P R R S P G P R A H V R G S P V
V G Q A G A P V P D L T Y G V P L S

CTG CGG GAC CCG CGG CCG ACC CTG GCC CAG CTC GCA CAT GGG CTG GCC TTC CCT
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GAC GCC CTG GGC GCC GGC TGG GAC CGG GTC GAG CGT GTA CCC GAC CGG AAG GGA

D A L G A G W D R V E R V P D R K G
T P W A P A G T G S S V Y P T G R D
R P G R R L G P G R A C T R P E G T

S R R * E S H S A R R P A S P * A G
R G A S S A T R R G G R R A R S R V
V V P A V R Q A V G A E A R E A V C

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T T G A T R C A T P A S A R S A T H
R P A L L A V R R P P R R A R L R T

R T D N S C P R A S V T R Q Y A S F
G H T T R A L G R R C R A S T R R S
G T H R E L L A E G V G H A P V G L

GGG GCA CAC AGC AAG CTC GTT CCG GAG CGG CTG TGG CAC GCG ACC ATG CGG CTC
23715 23724 23733 23742 23751 23760
CCC CGT GTG TCG TTC GAG CAA GGC CTC GCC GAC ACC GTG CGC TGG TAC GCC GAG

P R V S F E Q G L A D T V R W Y A E
P V C R S S K A S P T P C A G T P R
P C V V R A R P R R H R A L V R R E

R S Q H S G N F S R A S D S P M A R
G P S T P A T S R A R A T R R C P E
V P V P P L R Q V L A R Q G V A H S

TTG GCC CTG ACC ACC CTC GGC AAC TTG CTC GCG CGC GAC AGG CTG CCG TAC CGA
23769 23778 23787 23796 23805 23814
AAC CGG GAC TGG TGG GAG CCG TTG AAC GAG CGC GCG CTG TCC GAC GGC ATG GCT

N R D W W E P L N E R A L S D G M A
T G T G G S R * T S A R C P T A W L
P G L V G A V E R A R A V R R H G S

A T G V A G M V L P S G A R P S G R
P R A S L V W S * P L A R G R A E G
Q G H R C C G H S P S L G G A P K G

GAC CGG CAC GGC TGT CGT GGG TAC TGA TCC CCT CTC GGG CGG GCG CCC GAA GGG

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L A V P T A P M T R G E P A R G L P					
W P C R Q H P * L G E S P P A G F P					
G R A D S T H D * G R A R P R A S P					
R Q G F E K N R T T K W I K W S I Q					
E S V S N K T E R Q K G S K G P S K					
K A S R I R Q K A N N E L N E L L N					
GAA GCG ACT GGC TTA AGA AAC AAA GCG CAA CAA AAG GTC TAA AAG GTC CTC TAA					
23877 23886 23895 23904 23913 23922					
CTT CGC TGA CCG AAT TCT TTG TTT CGC GTT GTT TTC CAG ATT TTC CAG GAG ATT					
L R * P N S L F R V V F Q I F Q E I					
F A D R I L C F A L F S R F S R R F					
S L T E F F V S R C F P D F P G D L					
H R V T Q H G A S G A E D A R M H R					
I A C Q R T V P P A P K M P E C T A					
S P A S D P S R R L R S * R S A H P					
ACT ACC GCG TGA CAG ACC ACT GGC CGC CTC GGC CGA AGT AGC CGA GCG TAC ACC					
23931 23940 23949 23958 23967 23976					
TGA TGG CGC ACT GTC TGG TGA CCG GCG GAG CCG GCT TCA TCG GCT CGC ATG TGG					
* W R T V W * P A E P A S S A R M W					
D G A L S G D R R S R L H R L A C G					
(M) A H C L V T G G A G F I G S H V A Q2					
L S Q E A A P V P Y R D E V V E A A					
S A R S L R P C R T D T R S S R L P					
P P E A * G R A G P I P G R R G * R					
GCC TCC GAG ACG AGT CGG CGC CCG TGG CCC ATA GCC AGG AGC TGC TGG AGT CGC					
23985 23994 24003 24012 24021 24030					
CGG AGG CTC TGC TCA GCC GCG GGC ACC GGG TAT CGG TCC TCG ACG ACC TCA GCG					
R R L C S A A G T G Y R S S T T S A					
G G S A Q P R A P G I G P R R P Q R					
E A L L S R G H R V S V L D D L S G					
A G G L T D G L A R V Q E G P R H G					
P V A S R T G S P A C R N V P D T V					
R C R R A H G R P R A G T * R T P S					
CGC CGT GGC GGC TCG CAC AGG GGC TCC CGC GCG TGG ACA AGT GGC CCA GCC ACT					
24039 24048 24057 24066 24075 24084					
GCG GCA CCG CCG AGC GTG TCC CCG AGG GCG CGC ACC TGT TCA CCG GGT CGG TGA					
A A P P S V S P R A R T C S P G R *					
R H R R A C P R G R A P V H R V G D					
G T A E R V P E G A H L F T G S V T					
I H L Q D V P E E G L L S E V V D E					
S T S S T S L S K A S C R N S W T K					

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R H P A P R C A R R R A A I R G R R
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GGC TAC ACC TCG ACC AGC TGT CCG AGA AGC GGC TCG TCG CTA AGC TGG TGC AGA
24093 24102 24111 24120 24129 24138
CCG ATG TGG AGC TGG TCG ACA GGC TCT TCG CCG AGC AGC GAT TCG ACC ACG TCT
---
P M W S W S T G S S P S S D S T T S
R C G A G R Q A L R R A A I R P R L
D V E L V D R L F A E Q R F D H V F
---
V E R R E R R L R D T V R H L A E V
W K A A N A A S A I L * E T F L R L
G S R P T R P P P S * D S P S S G *
---
AGG TGA AGC GCC GCA AGC GCC GCC TCC GCT AGT CAG TGA GCC ACT TCT CGG AGT
24147 24156 24165 24174 24183 24192
TCC ACT TCG CGG CGT TCG CGG CGG AGG CGA TCA GTC ACT CGG TGA AGA GCC TCA
---
S T S R R S R R R R S V T R * R A S
P L R G V R G G G D Q S L G E E P Q
H F A A F A A E A I S H S V K S L N
---
V A G V H H A A H V E D V R R Q S G
* P V L T I P L T F R M L A A S R V
S R C W R S P C R S G * * R P A A F
---
TGA TGC CGT GGT TGC ACT ACC CGT CGC ACT TGG AGT AGT TGC GCC GCG ACG CTT
24201 24210 24219 24228 24237 24246
ACT ACG GCA CCA ACG TGA TGG GCA GCG TGA ACC TCA TCA ACG CGG CGC TGC GAA
---
T T A P T * W A A * T S S T R R C E
L R H Q R D G Q R E P H Q R G A A N
Y G T N V M G S V N L I N A A L R T
---
A D R E E T E R G G D R H V P V A L
P T E N K Q K A D E T A T Y P C P S
R R R T R R N R T R R P T R A R R
---
GGC CGC AGA GCA AGA AGA CAA AGC GCA GGA GGC AGC GCC ACA TGC CCG TGC CGC
24255 24264 24273 24282 24291 24300
CCG GCG TCT CGT TCT TCT GTT TCG CGT CCT CCG TCG CGG TGT ACG GGC ACG GCG
---
P A S R S S V S R P P S R C T G T A
R R L V L L F R V L R R G V R A R R
G V S F F C F A S S V A V Y G H G E
---
G R H P L R R D R Y R G V T V A V R
V G I R S D D I G T G A S L * P L A
S G S A P T T S G P V P R C N R C R
---
TCT GGG GCT ACG CCC TCA GCA GCT AGG GCC ATG GCC GGC TGT CAA TGC CGT TGC
24309 24318 24327 24336 24345 24354
AGA CCC CGA TGC GGG AGT CGT CGA TCC CGG TAC CGG CCG ACA GTT ACG GCA ACG
---
R P R C G S R R S R Y R P T V T A T
D P D A G V V D P G T G R Q L R Q R
T P M R E S S I P V P A D S Y G N A

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      F E R D L A L Q F R R H P G L A Q G
      F S V T S R S S S V V I R V W P R G
      S V * P R A R A P F S S A S G P G A
-----
GCT TTG AGT GCC AGC TCG CGC TCG ACC TTT GCT GCT ACG CCT GGG TCC CGG ACG
    24363      24372      24381      24390      24399      24408
CGA AAC TCA CGG TCG AGC GCG AGC TGG AAA CGA CGA TGC GGA CCC AGG GCC TGC
-----
      R N S R S S A S W K R R C G P R A C
      E T H G R A R A G N D D A D P G P A
      K L T V E R E L E T T M R T Q G L P
-----
      E G C E T H V V H V A F P L V H A V
      K V A N R I C L T Y P S H C F M R S
      R * R M G Y A C R T R R I A S C A R
-----
GGA AGT GGC GTA AGG CAT ACG TGT TGC ACA TGC CGC TTA CCG TCT TGT ACG CGC
    24417      24426      24435      24444      24453      24462
CCT TCA CCG CAT TCC GTA TGC ACA ACG TGT ACG GCG AAT GGC AGA ACA TGC GCG
-----
      P S P H S V C T T C T A N G R T C A
      L H R I P Y A Q R V R R M A E H A R
      F T A F R M H N V Y G E W Q N M R D
-----
      G I A I R D G N E E V L D Q A T L R
      G * R L A T A M K K L W I R R P S G
      G R D C H P R W K R * G S G A R H A
-----
TGG GGA TAG CGT TAC GCC AGC GGT AAA AGA AGT TGG TCT AGG ACG CGC CAC TCG
    24471      24480      24489      24498      24507      24516
ACC CCT ATC GCA ATG CGG TCG CCA TTT TCT TCA ACC AGA TCC TGC GCG GTG AGC
-----
      T P I A M R S P F S S T R S C A V S
      P L S Q C G R H F L Q P D P A R * A
      P Y R N A V A I F F N Q I L R G E P
-----
      D R D V A V A T L H P R E A V D L V
      I E T * P S P P * T R A N L * T L S
      S R P R R R R R D P A P T * S R * P
-----
GCT AGA GCC AGA TGC CGC TGC CGC CAG TCC ACG CCC GCA AGT CGA TGC AGT TCC
    24525      24534      24543      24552      24561      24570
CGA TCT CGG TCT ACG GCG ACG GCG GTC AGG TGC GGG CGT TCA GCT ACG TCA AGG
-----
      R S R S T A T A V R C G R S A T S R
      D L G L R R R R S G A G V Q L R Q G
      I S V Y G D G G Q V R A F S Y V K D
-----
      D H V D D H A G G L R L L G P A P G
      M T S T M T R A G S V S F A Q P R A
      C R P R * R A R G R S P S P R P G P
-----
TGT AGC ACC TGC AGT AGC ACG CGC GGG GGC TCT GCC TCT TCC GGA CCC CGG CCC
    24579      24588      24597      24606      24615      24624
ACA TCG TGG ACG TCA TCG TGC GCG CCC CCG AGA CGG AGA AGG CCT GGG GCC GGG
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T S W T S S C A P P R R R R P G A G
H R G R H R A R P R D G E G L G P G
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E V D A R G A G V G H Q L Q G L G H
K L T P E D R V L V T S S S A W A T
R * R R S T G C W C R A P A P G P R

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24633 24642 24651 24660 24669 24678
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P S T S A R P A P T P C W S W P R P
L Q R R L V P H Q H R A G A G P G R
F N V G S S R T N T V L E L A Q A V

T R R G T D G A V G D R V Q G G P V
R A A A P T G L W G M A C R G A R S
A H P P R H G W G G W R A G A R G P

ACG CAC GCC GCC GGC CAC AGG GGT CGG TGG GGT AGC GCG TGG ACG GGC GGG CCC
24687 24696 24705 24714 24723 24732
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C V R R P V S P A T P S R T C P P G
A C G G R C P Q P P H R A P A R P G
R A A A G V P S H P I A H L P A R D

L H H D G V G G G L L G A L D E A V
S T I T A * V A V S S A R S T K P S
R P S P R R C R W R P P G R P R R R

TGC TCC ACT ACC AGC GGA TGT GGC GGT GGC TCC TCC GGG CGC TCC AGA AGC CGC
24741 24750 24759 24768 24777 24786
ACG AGG TGA TGG TCG CCT ACA CCG CCA CCG AGG AGG CCC GCG AGG TCT TCG GCG

T R * W S P T P P P R R P A R S S A
R G D G R L H R H R G G P R G L R R
E V M V A Y T A T E E A R E V F G D

P R V G R Q R V P E G P G G R P G G
Q A S V G S A S P S A R V A A H A A
S P P C G A P P R A R G S R R T P R

TGA CCC GCC TGT GGG GCG ACC GCC TGC CCG AGC GGG CCT GGC GGC GCA CCC GGC
24795 24804 24813 24822 24831 24840
ACT GGG CGG ACA CCC CGC TGG CGG ACG GGC TCG CCC GGA CCG CCG CGT GGG CCG

T G R T P R W R T G S P G P P R G P
L G G H P A G G R A R P D R R V G R
W A D T P L A D G L A R T A A W A A

G D A G G F Q A G G E L D L D A S L
E T P G A S S R E E K S I S I P P S
R R R G R R V A S R R R S R S R R L

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24849 24858 24867 24876 24885 24894
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 P P S A P P N C A P P S R S R S A E
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 S V G P A E L R S S F E I E I G G E
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 A R G P T P A T H P R G A S R R R G
 TCG CGC AGG GCC TCA CCC GCG TCA CAC ACC GGC TGG CCG ACT CGC CGC GGC TGG
 24903 24912 24921 24930 24939 24948
 AGC GCG TCC CGG AGT GGG CGC AGT GTG TGG CCG ACC GGC TGA GCG GCG CCG ACC
 S A S R S G R S V W P T G * A A P T
 A R P G V G A V C G R P A E R R R P
 R V P E W A Q C V A D R L S G A D R
 S G W G L G D R K S A C R V T S T L
 H D G A W A T E S P L A G S L P P L
 T I G L G L R R A Q F R V Q C H L Y
 CCA CTA GGG GTC GGG TTC GGC AGA GCG AAC CTT CGC GTG GAC TGT CAC CTC CAT
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 GGT GAT CCC CAG CCC AAG CCG TCT CGC TTG GAA GCG CAC CTG ACA GTG GAG GTA
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 V I P S P S R L A W K R T * Q W R *
 * S P A Q A V S L G S A P D S G G K
 C C H V I K L N P T P Y T F E L R P
 A V T F S R S I R R R T R S S S G H
 P L L S R D Q S E A D P V H V R A T
 TCC GTT GTC ACT TGC TAG AAC TCT AAG CCG CAG CCC ATG CAC TTG AGC TCG GCA
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 AGG CAA CAG TGA ACG ATC TTG AGA TTC GGC GTC GGG TAC GTG AAC TCG AGC CGT
 R Q Q * T I L R F G V G Y V N S S R
 G N S E R S * D S A S G T * T R A V
 A T (V) N D L E I R R R V R E L E P W
 H V V K H V V P D P V G G G G R A V
 T F S K T Y L P T R Y A V A E V R S
 P S R S Q T C R P G T R W R R W A R
 CCC ACT TGC TGA AAC ACA TGT TGC CCC AGG CCA TGC GGT GGC GGA GGT GCG CGC
 25065 25074 25083 25092 25101 25110
 GGG TGA ACG ACT TTG TGT ACA ACG GGG TCC GGT ACG CCA CCG CCT CCA CGC GCG
 G * T T L C T T G S G T P P P P R A
 G E R L C V Q R G P V R H R L H A R
 V N D F V Y N G V R Y A T A S T R D
 V Q Q A L R G L L P G V R E E R R E
 * R S L W G G W S R A S A N K A A N

2055220"022502 10084846

GS

205220.948302

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 ACT ACC TGC TGA GCC AGC CGC CCC AGG AGC GGG CCG ACG CGT TCT TCG CGG CGT
 T T C * A S R P R S G P T R S S R R
 L P A E P A A P G A G R R V L R G V
 Y L L S Q P P Q E R A D A F F A A F
 R P G L A D Q L E A R Q L A R V G Q
 G P A L R T R S S P A S S P A S V R
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 P G G Q A R P G A R R A G G R G H P
 P G A K R V L E L G A L E G A D T L
 R H R S L G A D L D E G Q L A A F L
 A I D P C G P T S I R A R S P R S S
 P S T P V A R R R S G R G P P G R L
 ACC GCT ACA GCC CTG TCG GGC CGC AGC TCT AGG AGC GGG ACC TCC CGG CGC TTC
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 TGG CGA TGT CGG GAC AGC CCG GCG TCG AGA TCC TCG CCC TGG AGG GCC GCG AAG
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 G D V G T A R R R D P R P G G P R R
 A M S G Q P G V E I L A L E G R E E
 V Q A A G L E D H L H V A D G V H F
 F R R R A S N T M S T C P T V L T S
 S G A G R R T R * P P A R R * W R P
 TCT TGG ACG CGG CGC GGC TCA AGC AGT ACC TCC ACG TGC CGC AGT GGT TGC ACC
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 AGA ACC TGC GCC GCG CCG AGT TCG TCA TGG AGG TGC ACG GCG TCA CCA ACG TGG
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 N L R R A E F V M E V H G V T N V E
 E P E G V H L R H L E G P E A V E V
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 25335 25344 25353 25362 25371 25380
 AAC TCC GGC TCG CCG ACG TGG AGT CGA TGG AGT TCG CCG GGC TCG GCC ACT TCG
 N S G S P T W S R W S S P G S A T S
 T P A R R R G V D G V R A R P L R
 L R L A D V E S M E F A G L G H F D

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      G   R   E   A   C   P   E   E   V   V   H   L   P   G   P   L   Q   E
      A   V   S   Q   A   P   S   R   *   W   T   C   R   G   Q   S   S   S
      R   W   A   R   R   L   A   G   R   G   R   A   A   A   R   P   A   A
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TGC GGT GCG AGA CGC GTC CCG AGG AGA TGG TGC ACG TCG CCG GGA CCC TCG ACG
    25389      25398      25407      25416      25425      25434
ACG CCA CGC TCT GCG CAG GGC TCC TCT ACC ACG TGC AGC GGC CCT GGG AGC TGC
      ---
      T   P   R   S   A   Q   G   S   S   T   T   C   S   G   P   G   S   C
      R   H   A   L   R   R   A   P   L   P   R   A   A   A   L   G   A   A
      A   T   L   C   A   G   L   L   Y   H   V   Q   R   P   W   E   L   L

      G   V   D   A   G   D   G   V   A   E   V   E   G   G   V   V   P   A
      A   S   M   P   E   T   E   S   Q   R   *   R   E   V   W   *   Q   P
      R   R   C   R   S   R   R   R   S   G   R   G   R   W   G   S   S   P
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AGC GGC TGT AGC CGA GGC AGA GGC TGA CGG AGA TGG AGA GGT GGG TGA TGA CCC
    25443      25452      25461      25470      25479      25488
TCG CCG ACA TCG GCT CCG TCT CCG ACT GCC TCT ACC TCT CCA CCC ACT ACT GGG
      ---
      S   P   T   S   A   P   S   P   T   A   S   T   S   P   P   T   T   G
      R   R   H   R   L   R   L   R   L   P   L   P   L   H   P   L   L   G
      A   D   I   G   S   V   S   D   C   L   Y   L   S   T   H   Y   W   G

      A   R   V   S   H   G   V   E   V   T   R   P   G   G   R   G   R   L
      L   E   S   P   I   V   S   R   S   P   V   R   D   V   G   D   A   F
      C   S   P   R   F   S   R   G   R   R   Y   A   T   W   G   T   R   S
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CGT CGA GCC TGC CTT ACT GGC TGG AGC TGC CAT GCG CCA GGT GGG GCA GGC GCT
    25497      25506      25515      25524      25533      25542
GCA GCT CGG ACG GAA TGA CCG ACC TCG ACG GTA CGC GGT CCA CCC CGT CCG CGA
      ---
      A   A   R   T   E   *   P   T   S   T   V   R   G   P   P   R   P   R
      Q   L   G   R   N   D   R   P   R   R   Y   A   V   H   P   V   R   E
      S   S   D   G   M   T   D   L   D   G   T   R   S   T   P   S   A   K

      G   G   R   A   G   P   G   R   G   *   R   R   R   A   S   A   P   G
      V   V   G   L   G   L   G   A   A   E   A   D   V   H   A   P   Q   V
      S   W   G   S   G   W   A   R   P   R   L   T   S   T   R   Q   S   S
      ---
TCT GGT GGG GCT CGG GGT CCG GGC GCC GGA GTC GCA GCT GCA CGC GAC CGA CCT
    25551      25560      25569      25578      25587      25596
AGA CCA CCC CGA GCC CCA GGC CCG CGG CCT CAG CGT CGA CGT GCG CTG GCT GGA
      ---
      R   P   P   R   A   P   G   P   R   P   Q   R   R   R   A   L   A   G
      D   H   P   E   P   Q   A   R   G   L   S   V   D   V   R   W   L   D
      T   T   P   S   P   R   P   A   A   S   A   S   T   C   A   G   W   T

      A   T   A   S   A   R   G   P   A   P   P   S   *   R   H   R   P   A
      P   R   R   Q   H   A   G   Q   L   L   R   A   E   G   I   D   L   H
      R   G   D   S   I   R   A   R   S   C   A   P   K   V   S   T   S   T
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GGC CGG CAG CGA CTA CGC GCG GGA CCT CGT CCG CCC GAA GTG GCT ACA GCT CCA
    25605      25614      25623      25632      25641      25650
CCG GCC GTC GCT GAT GCG CGC CCT GGA GCA GGC GGG CTT CAC CGA TGT CGA GGT
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205220 "2484800"

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Q V L P G R C L D A V D D R G A A L
S C S R A V A S T Q S M T A A Q R L

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GCT GCA CGA GCG GGC CAC GGC AGA GGT CTG CGA CAT CGT CGC GGC CTG CCG CAA

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L H E R A T A E V C D I V A A C R K
C T S G P R Q R S A T S S R P A A R

R R A G S T V S G P R P S L L V C G
G A H G A R S A A R V L R F S S A D
A P T G R E H R Q G S S A F P P R M

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A G V P R S * R C P D E A K G G R I
P A C P A R D A A R T R R K E D A S

H G R R C Q V P G R R D L P E S P V
M V V A V S S R A A A I S R N R R S
W S W P S V P G P R P S R A T G V P

GGT ACT GGT GCC GCT GTG ACC TGG CCC GGC GCC GCT AGC TCG CCA AGG CTG CCC
25767 25776 25785 25794 25803 25812

CCA TGA CCA CGG CGA CAC TGG ACC GGG CCG CGG CGA TCG AGC GGT TCC GAC GGC

P * P R R H W T G P R R S S G S D G
H D H G D T G P G R G D R A V P T G

(M) T T A T L D R A A A I E R F R R D 01

A E R V R A R N E G R V R D G T E L
P K A F A P G T R A G S A I A R R L
R S R S R P G P E R G P R S R G D *

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T A S R T R A R F S P R T R S P V S
R L R E R G P G S R P G R D R P S Q
G F A N A G P V L A P D A I A R L K

R A G F P E D G A E G V L A Q A G V
A P A S R S M V R K V S S P R R E S
P P R R V A * * G S * R R P G A S R

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 G G R R T A H H P L H R R G P A L R
 A G A E R L I T R F T D E G L R S D

 V V P V E G D L A I L T G D E V A H
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 R S S S S G R R P R H A D R G R G R

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 V V Q L L L V P G R F P V Q Q V A L
 C L K S F C S Q A G S R S R S C R S
 A C S P S A P S P G P V P G A A G R

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 A Q L G E A G L G P G T G P A A P R
 H N L E K Q D W A P E R D L L H R E

 F Q R L E G G R E H V A R D H G G G
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 P V P A A R R R T R P R G P R A W R

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 E L A Q L A A A F V D G P V V P T A

 V R E D E L L R V P G R L H W P V T
 * A S T R L S G Y R A A S T G H C R
 R R A R G * P A T G P R P P A M A G

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 Y A L V L K E P Y R A A E V P W H R

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 S R T L T P G R V T Q L R L M Q R S

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	26145			26154			26163			26172			26181			26190	
GTG	ACC	GCG	TCA	ACG	TCG	GCC	CGC	GCA	CGG	TCT	GCA	ATC	TGA	GCA	TCT	GCC	TGG
V	T	A	S	T	S	A	R	A	R	S	A	I	*	A	S	A	W
*	P	R	Q	R	R	P	A	H	G	L	Q	S	E	H	L	P	G
D	R	V	N	V	G	P	R	T	V	C	N	L	S	I	C	L	D
V	G	S	R	V	V	S	A	Q	L	R	N	R	S	R	V	Q	E
S	A	P	G	C	L	P	H	R	S	A	T	G	P	D	C	R	S
R	R	R	V	A	C	R	I	G	P	P	P	E	P	I	A	G	A
TGC	TGC	GGC	CTG	GCG	TGT	TGC	CTA	CGG	ACC	TCC	GCC	AAG	GCC	CTA	GCG	TGG	ACG
	26199			26208			26217			26226			26235			26244	
ACG	ACG	CCG	GAC	CGC	ACA	ACG	GAT	GCC	TGG	AGG	CGG	TTC	CGG	GAT	CGC	ACC	TGC
T	T	P	D	R	T	T	D	A	W	R	R	F	R	D	R	T	C
R	R	R	T	A	Q	R	M	P	G	G	G	S	G	I	A	P	A
D	A	G	P	H	N	G	C	L	E	A	V	P	G	S	H	L	L
G	V	V	G	L	H	R	L	H	A	R	G	S	G	H	N	R	D
G	S	S	A	S	T	A	F	T	R	A	V	P	G	T	T	G	T
G	R	R	R	R	P	P	S	P	A	R	S	R	V	R	P	E	P
AGG	GGC	TGC	TGC	GGC	TCC	ACC	GCT	TCC	ACG	CGC	GCT	GGC	CTG	GGC	ACC	AAG	GCC
	26253			26262			26271			26280			26289			26298	
TCC	CCG	ACG	ACG	CCG	AGG	TGG	CGA	AGG	TGC	GCG	CGA	CCG	GAC	CCG	TGG	TTC	CGG
S	P	T	T	P	R	W	R	R	C	A	R	P	D	P	W	F	R
P	R	R	R	R	G	G	E	G	A	R	D	R	T	R	G	S	G
P	D	D	A	E	V	A	K	V	R	A	T	G	P	V	V	P	V
R	D	A	L	A	V	H	H	H	V	V	D	P	E	D	V	T	R
G	T	L	W	P	S	T	T	T	C	S	T	R	S	T	W	P	E
G	P	*	G	P	R	R	P	P	A	R	R	G	A	R	G	R	N
AGG	GCC	AGT	CGG	TCC	CGC	TGC	ACC	ACC	ACG	TGC	TGC	AGG	CCG	AGC	AGG	TGC	CAA
	26307			26316			26325			26334			26343			26352	
TCC	CGG	TCA	GCC	AGG	GCG	ACG	TGG	TGG	TGC	ACG	ACG	TCC	GGC	TCG	TCC	ACG	GTT
S	R	S	A	R	A	T	W	W	C	T	T	S	G	S	S	T	V
P	G	Q	P	G	R	R	G	G	A	R	R	P	A	R	P	R	F
P	V	S	Q	G	D	V	V	V	H	D	V	R	L	V	H	G	S
A	R	V	G	V	A	T	P	P	P	G	D	D	D	L	V	G	V
P	G	F	A	L	P	L	Q	R	R	V	M	T	M	S	Y	A	S
P	G	S	R	W	R	C	N	A	A	S	W	R	*	R	T	R	R
GCC	CGG	GCT	TGC	GGT	TGC	CGT	CAA	CCG	CCG	CCT	GGT	AGC	AGT	AGC	TCA	TGC	GGC
	26361			26370			26379			26388			26397			26406	
CGG	GCC	CGA	ACG	CCA	ACG	GCA	GTT	GGC	GGC	GGA	CCA	TCG	TCA	TCG	AGT	ACG	CCG
R	A	R	T	P	T	A	V	G	G	G	P	S	S	S	S	T	P
G	P	E	R	Q	R	Q	L	A	A	D	H	R	H	R	V	R	R
G	P	N	A	N	G	S	W	R	R	T	I	V	I	E	Y	A	D

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R G C R R R G S R Q A A S R W A S M
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G P R V A P A R L A A G G L A L C V
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26415 26424 26433 26442 26451 26460
ACC CGG CCG CAC CGC CGG CGC CCT GAG CGC TGC GCC GCC GAG CGC CAG GCA GAC
---
T R P H R R R P E R C A A E R Q A D
P G R T A G A L S A A P P S A R Q T
P A A P P A P * A L R R R A P G R H
---
S R C T L S D K P H P N H E G G R V
R V A P * P T K R I L I I N V A E F
D F P L D P L R E S S S * T * R R S
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TAG CTT GCC GTC CAG TCC CTC AGA AAG CCT ACT CCT AAT ACA AGT GGC GGA GCT
26469 26478 26487 26496 26505 26514
ATC GAA CGG CAG GTC AGG GAG TCT TTC GGA TGA GGA TTA TGT TCA CCG CCT CGA
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I E R Q V R E S F G * G L C S P P R
S N G R S G S L S D E D Y V H R L E
R T A G Q G V F R (M) R I M F T A S N GT1
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ACT GGG CGG GAC ATT ACA TGT GCA TGG TGC CCC TGG CCT GGG CGC TGC GCG CCG
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L G G T L H V H G A P G L G A A R R
W A G H Y M C M V P L A W A L R A A
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P V R S G P P T G A T A P V R P R R
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CGG GAC ACG AGA TCC GGG TGG CGT GCC CGC CGT CGC AGG AAC GCG GGG TCG CCG
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G H E I R V A C P P S Q E R G V A A
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P Q R E I H L G H V C R R L G T R P
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R L A F Y V Q A M Y T P P Q S G P R

R Q R Q V R E G P L R H L R E V V E
G S G S C G N V P C G I C D S L S K
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G R C R C T R S P G S R C S R S T T
A A A A A P V H R A A D A V A Q R L
P L P L H P F T G Q P M Q S L N D F

V G A V Q A V E P L L R D V R H L A
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R R R R G A R S R S S T S R R P A A

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S T P A T C A T S G R S R S T R C S
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D A G D L R D F W K K S I D A V Q R

A I V V R H A E A V V P P G V Q H H
L * S L A T L K P S W Q R G S R T T
C S H C R P S S R R G S A A R G P P

CGT CGA TAC TGT TGC GCC ACT CGA AGC CGC TGG TGA CCG CCG GGC TGG ACC ACC
26847 26856 26865 26874 26883 26892
GCA GCT ATG ACA ACG CGG TGA GCT TCG GCG ACC ACT GGC GGC CCG ACC TGG TGG

A A M T T R * A S A T T G G P T W W
Q L * Q R G E L R R P L A A R P G G
S Y D N A V S F G D H W R P D L V V

V V D H G D L A C Q D G R E P A H R
C S M M A T S P A S T A A S R P T G
A R C * P R R P R V P R R A G P R A

ACG TGC TGT AGT ACC GGC AGC TCC CGC GTG ACC AGC GGC GCG AGG CCC CGC ACG

26901	26910	26919	26928	26937	26946
TGC ACG ACA TCA TGG CCG TCG AGG GCG CAC TGG TCG CCG CGC TCC GGG GCG TGC					
C T T S W P S R A H W S P R S G A C					
A R H H G R R G R T G R R A P G R A					
H D I M A V E G A L V A A L R G V P					
A D I H R G P E D A G H L G L R P E					
L T * T D G P N M P V T S V S G P S					
S R R H T A R T * R C R P S R A P A					
GCT CGC AGA TAC ACA GCG GGC CCA AGT AGC CGT GGC ACC TCT GGC TCG GCC CCG					
26955 26964 26973 26982 26991 27000					
CGA GCG TCT ATG TGT CGC CCG GGT TCA TCG GCA CCG TGG AGA CCG AGC CGG GGC					
R A S M C R P G S S A P W R P S R G					
E R L C V A R V H R H R G D R A G A					
S V Y V S P G F I G T V E T E P G L					
V Q D R R V R Q R A E L L V A D L P					
S R T E A S G S D H K S F Y P T S H					
R G P R P P G A T T S R S T R R R T					
AGC TGG ACC AGA GCC GCC TGG GCG ACA GCA CGA AGC TCT TCA TGC CGC AGC TCA					
27009 27018 27027 27036 27045 27054					
TCG ACC TGG TCT CGG CGG ACC CGC TGT CGT GCT TCG AGA AGT ACG GCG TCG AGT					
S T W S R R T R C R A S R S T A S S					
R P G L G G P A V V L R E V R R R V					
D L V S A D P L S C F E K Y G V E W					
A A V P D L V R H V G * R V H R H R					
P R S R I W Y A T S G E G S T A T G					
P G R G S G T R P P G R V P R P P A					
CCC CGG CGC TGG CCT AGG TCA TGC GCC ACC TGG GGA GTG GCC TGC ACC GCC ACG					
27063 27072 27081 27090 27099 27108					
GGG GCC GCG ACC GGA TCC AGT ACG CGG TGG ACC CCT CAC CGG ACG TGG CGG TGC					
G A A T G S S T R W T P H R T W R C					
G P R P D P V R G G P L T G R G G A					
G R D R I Q Y A V D P S P D V A V P					
R Q A V R Q P Q G H A V H G V V A G					
G S P S A S R S G M R * T G * L P A					
A A P R R A A A W A S R A R C R R					
GCG GCG ACC CGC TGC GCG ACG CCG ACG GGT ACG CGA TGC ACG GGA TGT TGC CGC					
27117 27126 27135 27144 27153 27162					
CGC CGC TGG GCG ACG CGC TGC GGC TGC CCA TGC GCT ACG TGC CCT ACA ACG GCG					
R R W A T R C G C P C A T C P T T A					
A A G R R A A A H A L R A L Q R R					
P L G D A L R L P M R Y V P Y N G A					
L A R V R P L Q P R D P A S A H A D					
W P A S G H C S P G I R P L R T H M					

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G P R P G T A A P A S G P C V R T C

 GGG TCC CGC GCC TGG GCA CCG TCG ACC CCG GCT AGG CCC CGT CTG CGC ACA CGT
 27171 27180 27189 27198 27207 27216
 CCC AGG GCG CGG ACC CGT GGC AGC TGG GGC CGA TCC GGG GCA GAC GCG TGT GCA

 P R A R T R G S W G R S G A D A C A
 P G R G P V A A G A D P G Q T R V H
 Q G A D P W Q L G P I R G R R V C I

 D P A V R G R A D E A G V Y R R Q P
 T Q P L E A E P M K P A S T G A S R
 R R P C S P R P C R R R R R V P A A

 AGC AGA CCC CGT TGA GCC GGA GCC CGT AGA AGC CGC GGC TGC ATG GCC GCG ACG
 27225 27234 27243 27252 27261 27270
 TCG TCT GGG GCA ACT CGG CCT CGG GCA TCT TCG GCG CCG ACG TAC CGG CGC TGC

 S S G A T R P R A S S A P T Y R R C
 R L G Q L G L G H L R R R R T G A A
 V W G N S A S G I F G A D V P A L R

 V G D V R R H P L A R L H H E R R R
 C A M S A A T R C P A S T T S V A G
 A R W R R P P A A P R P P P A * P A

 CCG TGC GGT AGC TGC GCC GCC ACG CCG TCC CGC GCC TCC ACC ACG AGT GCC GCG
 27279 27288 27297 27306 27315 27324
 GGC ACG CCA TCG ACG CGG CGG TGC GGC AGG GCG CGG AGG TGG TGC TCA CGG CGC

 G T P S T R R C G R A R R W C S R R
 A R H R R G G A A G R G G G A H G A
 H A I D A A V R Q G A E V V L T A P

 L F L H L L Q S R Q R G A D P H Q A
 C S C T S S S P A S G A P T R T S R
 A P V P P P A P L A A P R R G P A A

 GCG TCC TTG TCC ACC TCC TCG ACC CTC GCG ACG GCC GGC CGC AGG CCC ACG ACG
 27333 27342 27351 27360 27369 27378
 CGC AGG AAC AGG TGG AGG AGC TGG GAG CGC TGC CGG CCG GCG TCC GGG TGC TGC

 R R N R W R S W E R C R P A S G C C
 A G T G G G A G S A A G R R P G A A
 Q E Q V E E L G A L P A G V R V L R

 V A R Q L E D E R V A V Q Q H V V A
 L Q G S S S M R G Y Q S R S T C W P
 C S G A P A * G G T S R G A P A G R

 CGT TGA CGG GCG ACC TCG AGT AGG AGG GCA TGA CGC TGG ACG ACC ACG TGG TGC
 27387 27396 27405 27414 27423 27432
 GCA ACT GCC CGC TGG AGC TCA TCC TCC CGT ACT GCG ACC TGC TGG TGC ACC ACG

 A T A R W S S S S R T A T C W C T T
 Q L P A G A H P P V L R P A G A P R
 N C P L E L I L P Y C D L L V H H G

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      A  G  V  A  V  H  V  A  D  H  R  P  N  R  L  Q  G  E
      L  A  L  Q  *  M  F  P  M  T  A  P  I  G  C  S  D  R
      C  R  W  S  S  C  S  R  C  R  P  P  S  E  A  A  T  G
-----
CGT CGC GGT TGA CGA TGT ACT TGC CGT AGC ACC GCC CCT AAG GCG TCG ACA GGG
    27441          27450          27459          27468          27477          27486
GCA GCG CCA ACT GCT ACA TGA ACG GCA TCG TGG CGG GGA TTC CGC AGC TGT CCC
-----
      A  A  P  T  A  T  *  T  A  S  W  R  G  F  R  S  C  P
      Q  R  Q  L  L  H  E  R  H  R  G  G  D  S  A  A  V  P
      S  A  N  C  Y  M  N  G  I  V  A  G  I  P  Q  L  S  L
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      G  E  V  V  V  R  Q  D  A  A  A  T  D  I  G  G  A  G
      A  R  L  *  S  V  S  I  Q  P  R  R  I  S  G  A  P  A
      R  G  *  S  R  C  A  S  R  R  G  G  Y  R  D  R  R  R
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AGC GGG AGT TGA TGC TGT GCG ACT AGA CGC CGG CGG CAT AGC TAG GGC GGC CGC
    27495          27504          27513          27522          27531          27540
TCG CCC TCA ACT ACG ACA CGC TGA TCT GCG GCC GCC GTA TCG ATC CCG CCG GCG
-----
      S  P  S  T  T  T  R  *  S  A  A  A  V  S  I  P  P  A
      R  P  Q  L  R  H  A  D  L  R  P  P  Y  R  S  R  R  R
      A  L  N  Y  D  T  L  I  C  G  R  R  I  D  P  A  G  A
-----
      G  Q  G  Q  G  A  K  L  G  R  G  L  L  D  L  L  R  Q
      V  R  V  R  D  P  R  S  A  V  A  S  F  T  S  S  A  S
      W  G  S  G  T  R  G  Q  P  W  P  R  S  P  R  P  P  A
-----
GGT GGG ACT GGG ACA GGC CGG AAC TCC GGT GCC GGC TCT TCC AGC TCC TCC GCG
    27549          27558          27567          27576          27585          27594
CCA CCC TGA CCC TGT CCG GCC TTG AGG CCA CGG CCG AGA AGG TCG AGG AGG CGC
-----
      P  P  *  P  C  P  A  L  R  P  R  P  R  R  S  R  R  R
      H  P  D  P  V  R  P  *  G  H  G  R  E  G  R  G  G  A
      T  L  T  L  S  G  L  E  A  T  A  E  K  V  E  E  A  L
-----
      A  P  H  Q  E  V  V  A  V  A  P  R  R  L  F  Q  P  V
      R  R  T  S  N  S  W  R  *  R  R  A  A  S  F  S  R  S
      A  G  P  A  T  R  G  G  S  G  G  P  P  P  S  V  A  P
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ACG CGG CCC ACG ACA AGC TGG TGG CGA TGG CGG CCC GCC GCC TCT TTG ACG CCC
    27603          27612          27621          27630          27639          27648
TGC GCC GGG TGC TGT TCG ACC ACC GCT ACC GCC GGG CGG CGG AGA AAC TGC GGG
-----
      C  A  G  C  C  S  T  T  A  T  A  G  R  R  R  N  C  G
      A  P  G  A  V  R  P  P  L  P  P  G  G  G  E  T  A  G
      R  R  V  L  F  D  H  R  Y  R  R  A  A  E  K  L  R  D
-----
      A  D  L  P  C  R  R  G  G  R  D  G  P  Q  Q  G  A  E
      P  T  S  R  A  G  E  G  A  A  T  A  P  S  S  V  R  R
      R  R  R  A  P  V  K  A  R  R  P  R  R  A  A  S  G  G
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TGC CGC AGC TCG CCC GTG GAA GCG GGC GGC GCC AGC GGC CCG ACG ACT GGG CGG
    27657          27666          27675          27684          27693          27702
ACG GCG TCG AGC GGG CAC CTT CGC CCG CCG CGG TCG CCG GGC TGC TGA CCC GCC
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T A S S G H L R P P R S P G C * P A
R R R A G T F A R R G R R A A D P P
G V E R A P S P A A V A G L L T R L
H R V A P Q R R L V D G L D H V V G
T A S P P S D A F S T A S T T S L A
R P P R R A T P S P R R R P R P C R

AGC ACC GCC TGC CGC CCG ACA GCC GCT TCC TGC AGC GGC TCC AGC ACC TGT TGC
27711 27720 27729 27738 27747 27756
TCG TGG CGG ACG GCG GGC TGT CGG CGA AGG ACG TCG CCG AGG TCG TGG ACA ACG

S W R T A G C R R R T S P R S W T T
R G G R R A V G E G R R R G R G Q R
V A D G G L S A K D V A E V V D N A
G L S P P A R S L R A S S P V A P R
V S A R L L A H C D P Q L L S L P G
W R P E S S R T V I P S F F P C R A

GGT GGC TCC GAG CCT CCT CGC GCA CTG TTA GCC CGA CTT CTT CCC TGT CGC CCG
27765 27774 27783 27792 27801 27810
CCA CCG AGG CTC GGA GGA GCG CGT GAC AAT CGG GCT GAA GAA GGG ACA GCG GGC

P P R L G G A R D N R A E E G T A G
H R G S E E R V T I G L K K G Q R A
T E A R R S A * Q S G * R R D S G P E2

R * R P H R S * R S G G T R V A * R
D D G P T G A E D A G V Q A F P E D
T T V P P A P K M P E W R H S R S M

GCA GCA GTG GCC CCC ACG GCC GAA GTA GCC GAG GGT GGA CAC GCT TGC CGA GTA
27819 27828 27837 27846 27855 27864
CGT CGT CAC CGG GGG TGC CGG CTT CAT CGG CTC CCA CCT GTG CGA ACG GCT CAT

R R H R G C R L H R L P P V R T A H
V V T G G A G F I G S H L C E R L I
S S P G V P A S S A P T C A N G S S
A P D T P S R R P C G T W R C S R S
L P T Q R H G A H V V Q G G A P D R
S R P R D T V Q T S L R D V P L I A

GCT CGC CCC AGA CAG CCA CTG GAC GCA CCT GTT GGA CAG GTG GCC GTC CTA GCG
27873 27882 27891 27900 27909 27918
CGA GCG GGG TCT GTC GGT GAC CTG CGT GGA CAA CCT GTC CAC CGG CAG GAT CGC

R A G S V G D L R G Q P V H R Q D R
E R G L S V T C V D N L S T G R I A
S G V C R * P A W T T C P P A G S R
G R R A R R R P A T * A A A P R R S
V E V R E G V L L P E R Q Q P G V H
F R S A S A S S S R N V S S R A S T

CTT GGA GCT GCG CGA GCG GCT GCT CCT CGC CAA GTG CGA CGA CGC CCG GCT GCA

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27927				27936				27945				27954				27963				27972			
GAA	CCT	CGA	CGC	GCT	CGC	CGA	CGA	GGA	GCG	GTT	CAC	GCT	GCT	GCG	GGC	CGA	CGT						
E	P	R	R	A	R	R	R	G	A	V	H	A	A	A	G	R	R						
N	L	D	A	L	A	D	E	E	R	F	T	L	L	R	A	D	V						
T	S	T	R	S	P	T	R	S	G	S	R	C	C	G	P	T	*						
R	A	T	R	R	R	P	A	P	G	G	R	R	G	G	P	T	A						
G	L	R	E	G	D	L	P	R	D	V	V	D	D	V	Q	R	R						
V	S	G	N	E	T	S	P	G	T	W	W	T	T	W	R	A	D						
CTG	GCT	CGG	CAA	GAG	GCA	GCT	CCC	CGG	CCA	GGT	GGT	GCA	GCA	GGT	GGA	CCG	CAG						
27981				27990				27999				28008				28017				28026			
GAC	CGA	GCC	GTT	CTC	CGT	CGA	GGG	GCC	GGT	CCA	CCA	CGT	CGT	CCA	CCT	GGC	GTC						
D	R	A	V	L	R	R	G	A	G	P	P	R	R	P	P	G	V						
T	E	P	F	S	V	E	G	P	V	H	H	V	V	H	L	A	S						
P	S	R	S	P	S	R	G	R	S	T	T	S	S	T	W	R	R						
P	R	G	G	P	S	D	P	A	A	A	P	S	A	A	P	R	S						
R	G	G	G	Q	V	I	Q	R	Q	R	Q	L	R	Q	P	D	A						
G	A	E	G	R	S	*	R	A	S	G	S	S	V	S	R	T	P						
CGG	CCG	GAG	GGG	GGA	CCT	GAT	AGA	CCG	CGA	CGG	CGA	CCT	CTG	CGA	CGC	CCA	GCC						
28035				28044				28053				28062				28071				28080			
GCC	GGC	CTC	CCC	CCT	GGA	CTA	TCT	GGC	GCT	GCC	GCT	GGA	GAC	GCT	GCG	GGT	CGG						
A	G	L	P	P	G	L	S	G	A	A	A	G	D	A	A	G	R						
P	A	S	P	L	D	Y	L	A	L	P	L	E	T	L	R	V	G						
R	P	P	P	W	T	I	W	R	C	R	W	R	R	C	G	S	A						
P	R	S	R	S	R	A	A	A	P	P	P	A	R	R	G	S	R						
R	G	P	G	L	V	R	Q	P	Q	R	H	R	V	A	G	A	E						
E	A	P	V	S	F	A	S	R	S	A	T	A	C	P	A	R	K						
GAG	CCG	GCC	CTG	GCT	CTT	GCG	CGA	CGC	CGA	CCG	CCA	CCG	CGT	GCC	GCG	GGC	GAA						
28089				28098				28107				28116				28125				28134			
CTC	GGC	CGG	GAC	CGA	GAA	CGC	GCT	GCG	GCT	GGC	GGT	GGC	GCA	CGG	CGC	CCG	CTT						
L	G	R	D	R	E	R	A	A	A	G	G	G	A	R	R	P	L						
S	A	G	T	E	N	A	L	R	L	A	V	A	H	G	A	R	F						
R	P	G	P	R	T	R	C	G	W	R	W	R	T	A	P	A	S						
P	R	R	W	R	P	S	R	R	P	D	R	R	A	G	A	T	R						
H	D	G	G	G	R	L	D	V	P	I	G	G	L	V	R	L	G						
T	T	A	E	V	E	S	I	*	P	S	G	A	S	C	G	C	D						
GCA	CCA	GCG	GAG	GTG	GAG	CCT	CTA	GAT	GCC	CCT	AGG	GCG	GCT	CGT	GGG	CGT	CAG						
28143				28152				28161				28170				28179				28188			
CGT	GGT	CGC	CTC	CAC	CTC	GGA	GAT	CTA	CGG	GGA	TCC	CGC	CGA	GCA	CCC	GCA	GTC						
R	G	R	L	H	L	G	D	L	R	G	S	R	R	A	P	A	V						
V	V	A	S	T	S	E	I	Y	G	D	P	A	E	H	P	Q	S						
W	S	P	P	P	R	R	S	T	G	I	P	P	S	T	R	S	P						
S	S	S	P	C	R	*	G	S	R	G	A	N	P	T	R	R	P						
L	A	V	P	A	V	D	V	R	D	A	R	T	R	H	V	V	L						

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S L * Q P L T L G I P G R E T Y S S
 GCT CTC GAT GAC CCC GTT GCA GTT GGG CTA GCC GGG CGC AAG CCA CAT GCT GCT
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 CGA GAG CTA CTG GGG CAA CGT CAA CCC GAT CGG CCC GCG TTC GGT GTA CGA CGA
 R E L L G Q R Q P D R P A F G V R R
 E S Y W G N V N P I G P R S V Y D E
 R A T G A T S T R S A R V R C T T R
 W V T * R P A S R R R R A C A P R P
 G F P E G L R Q G G G V R A R Q A R
 A L R N V S A S V A A * A R V S P A
 CCG GTT TGC CAA GTG GCT CCG CGA CTG GCG GCG GAT GCG CGC GTG CGA CCC GCG
 28251 28260 28269 28278 28287 28296
 GGC CAA ACG GTT CAC CGA GGC GCT GAC CGC CGC CTA CGC GCG CAC GCT GGG CGC
 G Q T V H R G A D R R L R A H A G R
 A K R F T E A L T A A Y A R T L G A
 P N G S P R R * P P P T R A R W A R
 C R C Q G G T * S R R V A S A G R R
 V G A N G A Q E V G V S R P H A A V
 S V P M A R R N L E * P G R I R R S
 CCT GTG GCC GTA ACG GGC GGA CAA GTT GAG GAT GCC TGG CGC CTA CGC GGC GCT
 28305 28314 28323 28332 28341 28350
 GGA CAC CGG CAT TGC CCG CCT GTT CAA CTC CTA CGG ACC GCG GAT GCG CCG CGA
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 D T G I A R L F N S Y G P R M R R D
 T P A L P A C S T P T D R G C A A T
 R A P P A S R * R G P A R R V A A *
 V P P H H R G E D V L R E G S Q R E
 S P R T T G V K M S W A S A P S G S
 GCT GCC CGC CCA CCA CGG CTG GAA GTA GCT GGT CCG CGA GCG GCC TGA CGG CGA
 28359 28368 28377 28386 28395 28404
 CGA CGG GCG GGT GGT GCC GAC CTT CAT CGA CCA GGC GCT CGC CGG ACT GCC GCT
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 D G R V V P T F I D Q A L A G L P L
 T G G W C R P S S T R R S P D C R S
 W * R C R R G S G T A T S R R P C P
 G D V A A A G L G P R Q A V D L V R
 V M L P L P A W V R D S H * T S S V
 GTG GTA GTT GCC GTC GCC GCG GGT CTG GGC CAG CGA CAC GAT GCA GCT CCT GTG
 28413 28422 28431 28440 28449 28458
 CAC CAT CAA CGG CAG CGG CGC CCA GAC CCG GTC GCT GTG CTA CGT CGA GGA CAC
 H H Q R Q R R P D P V A V L R R G H
 T I N G S G A Q T R S L C Y V E D T
 P S T A A A P R P G R C A T S R T R

A	P	V	S	P	G	S	P	S	T	R	G	P	G	P	*	C	R
H	P	S	Q	H	G	Q	H	V	R	G	E	R	A	R	D	V	D
T	R	P	S	I	A	R	I	S	E	D	K	G	P	G	T	L	M
CCA	CGC	CCC	TGA	CTA	CCG	GGA	CTA	CCT	GAG	CAG	GAA	GGG	CCC	GGG	CCA	GTT	GTA
28467					28476			28485			28494			28503			28512
GGT	GCG	GGG	ACT	GAT	GGC	CCT	GAT	GGA	CTC	GTC	CTT	CCC	GGG	CCC	GGT	CAA	CAT
G	A	G	T	D	G	P	D	G	L	V	L	P	G	P	G	Q	H
V	R	G	L	M	A	L	M	D	S	S	F	P	G	P	V	N	I
C	G	D	*	W	P	*	W	T	R	P	S	R	A	R	S	T	S
R	S	R	H	S	S	R	G	D	S	R	P	P	S	R	R	V	R
A	R	G	T	L	H	G	D	T	L	D	R	L	R	D	G	C	E
P	A	V	P	S	I	V	T	R	*	I	A	S	A	I	A	A	S
GCC	GCG	CTG	GCC	ACT	CTA	CTG	GCA	GGC	AGT	CTA	GCG	CCT	CCG	CTA	GCG	GCG	TGA
28521					28530			28539			28548			28557			28566
CGG	CGC	GAC	CGG	TGA	GAT	GAC	CGT	CCG	TCA	GAT	CGC	GGA	GGC	GAT	CGC	CGC	ACT
R	R	D	R	*	D	D	R	P	S	D	R	G	G	D	R	R	T
G	A	T	G	E	M	T	V	R	Q	I	A	E	A	I	A	A	L
A	R	P	V	R	*	P	S	V	R	S	R	R	R	S	P	H	S
P	L	P	A	A	S	R	T	G	R	A	P	P	P	R	A	R	G
R	S	H	L	Q	P	G	L	E	A	R	R	R	L	V	L	G	A
A	P	T	S	S	R	V	S	N	R	A	G	A	S	S	S	G	P
GCG	CCC	TCA	CCT	CGA	CGC	CTG	GCT	CAA	GGC	GCG	CGG	CCG	CCT	CCT	GCT	CGG	GCC
28575					28584			28593			28602			28611			28620
CGC	GGG	AGT	GGA	GCT	GCG	GAC	CGA	GTT	CCG	CGC	GCC	GGC	GGA	GGA	CGA	GCC	CGG
R	G	S	G	A	A	D	R	V	P	R	A	G	G	G	R	A	R
A	G	V	E	L	R	T	E	F	R	A	P	A	E	D	E	P	G
R	E	W	S	C	G	P	S	S	A	R	R	R	R	T	S	P	A
A	S	G	R	C	R	S	R	W	S	S	A	P	S	S	A	R	P
P	A	A	G	V	D	L	G	G	P	R	L	Q	A	P	L	G	L
R	R	Q	G	S	M	S	V	A	L	V	F	S	P	Q	F	G	S
GGC	CGC	GAC	GGG	GCT	GTA	GCT	CTG	GCG	GTC	CTG	CTT	CGA	CCC	GAC	CTT	CGG	GCT
28629					28638			28647			28656			28665			28674
CCG	GCG	CTG	CCC	CGA	CAT	CGA	GAC	CGC	CAG	GAC	GAA	GCT	GGG	CTG	GAA	GCC	CGA
P	A	L	P	R	H	R	D	R	Q	D	E	A	G	L	E	A	R
R	R	C	P	D	I	E	T	A	R	T	K	L	G	W	K	P	E
G	A	A	P	T	S	R	P	P	G	R	S	W	A	G	S	P	R
A	A	R	R	L	A	*	A	C	G	A	R	T	P	S	C	R	G
H	R	E	G	F	P	E	L	A	G	Q	E	P	P	L	A	G	V
T	G	S	A	S	P	S	L	R	V	R	S	Q	H	S	L	V	*
CCA	CGG	CGA	GCG	GCT	TCC	CGA	GTT	CGC	GTG	GGA	CGA	GAC	CAC	CCT	CTC	GTG	GAT
28683					28692			28701			28710			28719			28728
GGT	GCC	GCT	CGC	CGA	AGG	GCT	CAA	GCG	CAC	CCT	GCT	CTG	GTG	GGA	GAG	CAC	CTA

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G A A R R R A Q A H P A L V G E H L
V P L A E G L K R T L L W W E S T Y
C R S P K G S S A P C S G G R A P T

A P C P G R R R S R N S R C * S H L
R P V H G V V A H V T R A V D P T S
G R S M A W S P T F P E L S M L L P

GGG CGC CCT GTA CCG GGT GCT GCC GCA CTT GCC AAG CTC GCT GTA GTC CTC ACC
28737 28746 28755 28764 28773 28782

CCC GCG GGA CAT GGC CCA CGA CGG CGT GAA CGG TTC GAG CGA CAT CAG GAG TGG

P A G H G P R R R E R F E R H Q E W
P R D M A H D G V N G S S D I R S G
R G T W P T T A * T V R A T S G V E

P M V L W V G A P L P T R I G R L T
R C S L G S V P R C P P A S A G S R
A A H C A L C R G A L P H P H G P A

TCG CCG TAC TGT TCG GTC TGT GGC CGG CCG TTC CCC CAC GCC TAC GGG GCC TCG
28791 28800 28809 28818 28827 28836

AGC GGC ATG ACA AGC CAG ACA CCG GCC GGC AAG GGG GTG CGG ATG CCC CGG AGC

S G M T S Q T P A G K G V R M P R S
A A * Q A R H R P A R G C G C P G A
R H D K P D T G R Q G G A D A P E R

G2

S S S L T T Q S H S S G S P M C T R
R P V * R P R P T P R G R P C A P A
D L F E V H D P L P V V G L A H L H

CAG CTC CTT GAG TTG CAC CAG ACC CTC ACC CTG CTG GGG CTC CCG TAC GTC CAC
28845 28854 28863 28872 28881 28890

GTC GAG GAA CTC AAC GTG GTC TGG GAG TGG GAC GAC CCC GAG GGC ATG CAG GTG

V E E L N V V W E W D D P E G M Q V
S R N S T W S G S G T T P R A C R C
R G T Q R G L G V G R P R G H A G A

S A P * * G R S S Y R R S R A S R I
A R P S D A G H R T D A R G H R A S
P E R A I L G T V L I Q A V T G L P

GCC GAG CGC CCG ATA GTC GGG GCA CTG CTC ATA GAC GCG CTG GCA CGG CTC GCC
28899 28908 28917 28926 28935 28944

CGG CTC GCG GGC TAT CAG CCC CGT GAC GAG TAT CTG CGC GAC CGT GCC GAG CGG

R L A G Y Q P R D E Y L R D R A E R
G S R A I S P V T S I C A T V P S G
A R G L S A P * R V S A R P C R A D

S W N A A A S D R V G S V S R N S I
R G T P R P A T G S G P C R D T R S
D V L Q G R R Q G Q G R V G I Q E L

TAG CTG GTC AAC CGG CGC CGC GAC AGG GAC TGG GGC CTG TGG CTA GAC AAG CTC

28953	28962	28971	28980	28989	28998
ATC GAC CAG TTG GCC GCG GCG CTG TCC CTG ACC CCG GAC ACC GAT CTG TTC GAG					
I D Q L A A A L S L T P D T D L F E					
S T S W P R R C P * P R T P I C S R					
R P V G R G A V P D P G H R S V R D					
P L P S P T M A R S S A G R T P L R					
R C R R P R * P G R A P A G P R C G					
D A A A L A D H G A L Q R G P D A A					
TAG CCG TCG CCG CTC CCG CAG TAC CGG GCG CTC GAC CGC GGG GCC CAG CCG TCG					
29007 29016 29025 29034 29043 29052					
ATC GGC AGC GGC GAG GGC GTC ATG GCC CGC GAG CTG GCG CCC CGG GTC GGC AGC					
I G S G E G V M A R E L A P R V G S					
S A A A R A S W P A S W R P G S A A					
R Q R R G R H G P R A G A P G R Q P					
S H A S T L R D N R S F V R A V Q A					
A T R P R * G T T G P S S G R W R H					
Q Q A R V D A Q R E Q L L G A G G T					
GAC GAC ACG CGC CTG CAG TCG GAC AGC AAG GAC CTC TTC TGG GCG CGG TGG ACA					
29061 29070 29079 29088 29097 29106					
CTG CTG TGC GCG GAC GTC AGC CTG TCG TTC CTG GAG AAG ACC CGC GCC ACC TGT					
L L C A D V S L S F L E K T R A T C					
C C A R T S A C R S W R R P A P P V					
A V R G R Q P V V P G E D P R H L C					
P R G L T V * W W M R F S * R A P S					
P A A W R * R G G C G S R S G P R V					
R P P G V D G V V V D P V V V Q G S					
CGC CCC GCC GGG TTG CAG TGG ATG GTG GTG TAG GCC TTG CTG ATG GAC CGG CCT					
29115 29124 29133 29142 29151 29160					
GCG GGG CGG CCC AAC GTC ACC TAC CAC CAC ATC CGG AAC GAC TAC CTG GCC GGA					
A G R P N V T Y H H I R N D Y L A G					
R G G P T S P T T T S G T T T W P D					
G A A Q R H L P P H P E R L P G R T					
G S A E K S A P N A S L T K M W R F					
E P R R R R R R I R A * R R * G G S					
K R V G G E V G S E R E V D E D V Q					
GAA GGC CTG CGG AGG AAG CTG CGG CCT AAG CGC GAG TTG CAG AAG TAG GTG GAC					
29169 29178 29187 29196 29205 29214					
CTT CCG GAC GCC TCC TTC GAC GCC GGA TTC GCG CTC AAC GTC TTC ATC CAC CTG					
L P D A S F D A G F A L N V F I H L					
F R T P P S T P D S R S T S S S T *					
S G R L L R R R I R A Q R L H P P E					
A K S T * R * R R S I R R T S R G P					
R R R P R G R G A R S G A P A A A R					

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V	G	E	L	D	V	E	V	Q	A	L	D	P	P	H	Q	P	G
TTG	CGG	AAG	CTC	CAG	ATG	GAG	ATG	GAC	GCG	CTC	TAG	GCC	GCC	CAC	GAC	GCC	GGG
	29223			29232		29241		29250		29259						29268	
AAC	GCC	TTC	GAG	GTC	TAC	CTC	TAC	CTG	CGC	GAG	ATC	CGG	CGG	GTG	CTG	CGG	CCC
N	A	F	E	V	Y	L	Y	L	R	E	I	R	R	V	L	R	P
T	P	S	R	S	T	S	T	C	A	R	S	G	G	C	C	G	P
R	L	R	G	L	P	L	P	A	R	D	P	A	G	A	A	A	R
P	R	N	R	K	L	*	R	S	K	P	S	T	V	L	G	C	N
R	G	T	G	R	*	S	G	P	S	R	R	P	*	W	A	A	T
A	A	P	E	E	E	V	V	Q	V	E	A	L	D	G	P	R	L
CCG	CCG	GCC	AAG	GAG	AAG	TTG	ATG	GAC	CTG	AAG	CCG	CTC	CAG	TGG	TCC	GGC	GTC
	29277			29286		29295		29304		29313						29322	
GGC	GGC	CGG	TTC	CTC	TTC	AAC	TAC	CTG	GAC	TTC	GGC	GAG	GTC	ACC	AGG	CCG	CAG
G	G	R	F	L	F	N	Y	L	D	F	G	E	V	T	R	P	Q
A	A	G	S	S	S	T	T	W	T	S	A	R	S	P	G	R	S
R	P	V	P	L	Q	L	P	G	L	R	R	G	H	Q	A	A	V
W	S	Y	T	L	L	*	G	P	A	C	G	T	A	T	L	P	N
G	R	T	R	*	S	S	G	R	P	A	G	P	R	R	*	P	I
E	V	L	V	D	L	A	V	G	P	R	V	R	D	G	D	L	S
AAG	GTG	CTC	ATG	CAG	TTC	TCG	ATG	GGG	CCC	CGC	GTG	GGC	CAG	CGG	CAG	TTC	CCT
	29331			29340		29349		29358		29367						29376	
TTC	CAC	GAG	TAC	GTC	AAG	AGC	TAC	CCC	GGG	GCG	CAC	CCG	GTC	GCC	GTC	AAG	GGA
F	H	E	Y	V	K	S	Y	P	G	A	H	P	V	A	V	K	G
S	T	S	T	S	R	A	T	P	G	R	T	R	S	P	S	R	D
P	R	V	R	Q	E	L	P	R	G	A	P	G	R	R	Q	G	I
M	D	Q	S	P	V	S	T	T	R	L	S	A	A	S	A	P	S
*	T	R	A	R	C	R	R	P	G	C	A	R	P	P	P	R	A
E	H	G	P	E	A	G	V	H	D	A	L	E	R	R	L	G	P
AAG	TAC	AGG	ACC	GAG	CCG	TGG	CTG	CAC	CAG	GCG	TTC	GAG	CGC	CGC	CTC	CGG	CCC
	29385			29394		29403		29412		29421						29430	
TTC	ATG	TCC	TGG	CTC	GGC	ACC	GAC	GTG	GTC	CGC	AAG	CTC	GCG	GCG	GAG	GCC	GGG
F	M	S	W	L	G	T	D	V	V	R	K	L	A	A	E	A	G
S	C	P	G	S	A	P	T	W	S	A	S	S	R	R	R	P	G
H	V	L	A	R	H	R	R	G	P	Q	A	R	G	G	G	R	A
V	G	T	G	P	D	C	S	S	W	P	P	T	Q	K	R	V	R
S	V	P	V	R	T	A	R	R	G	P	R	R	R	S	G	*	G
Q	C	R	Y	G	P	R	V	V	V	L	A	A	D	A	E	E	G
GAC	TGT	GGC	CAT	GGG	CCC	AGC	GTG	CTG	CTG	GTC	CCG	CCG	CAG	ACG	AAG	GAG	TGG
	29439			29448		29457		29466		29475						29484	
CTG	ACA	CCG	GTA	CCC	GGG	TCG	CAC	GAC	GAC	CAG	GGC	GGC	GTC	TGC	TTC	CTC	ACC
L	T	P	V	P	G	S	H	D	D	Q	G	G	V	C	F	L	T
*	H	R	Y	P	G	R	T	T	T	R	A	A	S	A	S	S	P
D	T	G	T	R	V	A	R	R	P	G	R	R	L	L	P	H	P

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R L S C S A A H P V A R Q S P L A G
A C P V P P Q T L Y R V S P R C P G
Q A P F L L S R S T G C A P V A L G

GAC GCG TCC CTT GTC CTC CGA CGC ACT CCA TGG CGT GCG ACC CTG CCG TTC CGG
29493 29502 29511 29520 29529 29538
CTG CGC AGG GAA CAG GAG GCT GCG TGA GGT ACC GCA CGC TGG GAC GGC AAG GCC

L R R E Q E A A * G T A R W D G K A
C A G N R R L R E V P H A G T A R P
A Q G T G G C (V) R Y R T L G R Q G P

L D G G D A Q A G P R Q A P E P A A
S T E E T Q R P V Q A S L P N Q P L
R P R R R R G P C R P A S R T R P C

GGC TCC AGA GGA GGC AGA CGG ACC CGT GGA CCC GCG ACT CGC CCA AGA CCC CGT
29547 29556 29565 29574 29583 29592
CCG AGG TCT CCT CCG TCT GCC TGG GCA CCT GGG CGC TGA GCG GGT TCT GGG GCA

P R S P P S A W A P G R * A G S G A
R G L L R L P G H L G A E R V L G Q
E V S S V C L G T W A L S G F W G S

P G L R G D L R D P A R E V Q A D V
R V S G A T S A T R R A N S R P T L
G S R A P R R P P G A R T R G P R *

CGG CCT GGC TCG GCC GGC AGC TCC GCC AGG CCG CGC GCA AGC TGG ACC CGC AGT
29601 29610 29619 29628 29637 29646
GCC GGA CCG AGC CGG CCG TCG AGG CGG TCC GGC GCG CGT TCG ACC TGG GCG TCA

A G P S R P S R R S G A R S T W A S
P D R A G R R G G P A R V R P G R Q
R T E P A V E A V R R A F D L G V N

E E V G R V G V A R A H G L R S Q G
K K S V A C A * P A P M A S A P S A
S R R C R A R R R R P C P R P P V P

TGA AGA AGC TGT GGC GCG TGC GGA TGC CGC GCC CGT ACC GGC TCC GCC CTG ACC
29655 29664 29673 29682 29691 29700
ACT TCT TCG ACA CCG CGC ACG CCT ACG GCG CGG GCA TGG CCG AGG CGG GAC TGG

T S S T P R T P T A R A W P R R D W
L L R H R A R L R R G H G R G G T G
F F D T A H A Y G A G M A E A G L A

A A Q A V Q Q A G T A G V D D D R R
R P R P S R S R V R R E S M T M E V
G R G P R G A A C G D S R C R * R S

GGG CGC CGG ACC CGC TGG ACG ACG CGT GGG CAG CGA GGC TGT AGC AGT AGA GCT
29709 29718 29727 29736 29745 29754
CCC GCG GCG TGG GCG ACC TGC TGC GCA CCC GTC GCT CCG ACA TCG TCA TCT CGA

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P A A W A T C C A P V A P T S S S R
P R P G R P A A H P S L R H R H L D
R G L G D L L R T R R S D I V I S T

L A A Q L Q P A V T H D A V A V G T
F P P R S S R P S P T T R L L S A P
S P R G P A A P R R H P G C C R R R

GCT TCC CGC CGG ACC TCG ACG CCC CGC TGC CAC ACC AGG CGT TGT CGC TGC GGC
29763 29772 29781 29790 29799 29808
CGA AGG GCG GCC TGG AGC TGC GGG GCG ACG GTG TGG TCC GCA ACA GCG ACG CCG

R R A A W S C G A T V W S A T A T P
E G R P G A A G R R C G P Q Q R R R
K G G L E L R G D G V V R N S D A G

E Q A G V Q G V A Q A R Q P G V V H
K R R A L R V S L R R E S P V S * T
N G A R W G S R C G A S A P S R S R

CAA AGG ACG CGC GGT TGG ACT GGC TGT CGG ACG CGA GCG ACC CCT GGC TGA TGC
29817 29826 29835 29844 29853 29862
GTT TCC TGC GCG CCA ACC TGA CCG ACA GCC TGC GCT CGC TGG GGA CCG ACT ACG

V S C A P T * P T A C A R W G P T T
F P A R Q P D R Q P A L A G D R L R
F L R A N L T D S L R S L G T D Y V

V H E Q D V P G V R P D R R G L R R
S T N R T W Q G S G L T G G A S V A
P R T G P G S A R G S P G A P R S P

ACC TGC ACA AGG ACC AGG TGA CCG GGC TGG GCT CCC AGG GCG GCC GGC TCT GCC
29871 29880 29889 29898 29907 29916
TGG ACG TGT TCC TGG TCC ACT GGC CCG ACC CGA GGG TCC CGC CGG CCG AGA CCG

W T C S W S T G P T R G S R R P R R
G R V P G P L A R P E G P A G R D G
D V F L V H W P D P R V P P A E T A

T R Q R P E H L F P E G P V H A D G
P A S A P N T S S P S A R Y T P T E
P H A P P T R P P L A R G T R P R R

GCC CAC GCG ACC GCC CCA AGC ACC TCC TTC CCG AGC GGG CCA TGC ACC CGC AGA
29925 29934 29943 29952 29961 29970
CGG GTG CGC TGG CGG GGT TCG TGG AGG AAG GGC TCG CCC GGT ACG TGG GCG TCT

R V R W R G S W R K G S P G T W A S
G C A G G V R G G R A R P V R G R L
G A L A G F V E E G L A R Y V G V S

V E G D L F H G F E G G D D G R L D
L K V T S S I A S N E E T T V G C T
W S * R R P F P R I R R R * G A P

GGT TGA AGT GGC AGC TCC TTT ACC GGC TTA AGA GGA GGC AGC AGT GGG GCG TCC

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29979	29988	29997	30006	30015	30024
CCA ACT TCA CCG TCG AGG AAA TGG CCG AAT TCT CCT CCG TCG TCA CCC CGC AGG					
P T S P S R K W P N S P P S S P R R					
Q L H R R G N G R I L L R R H P A G					
N F T V E E M A E F S S V V T P Q V					
G L H R E V H E V A A D L L L H Q R					
A W T G N L M S S R P M S F C T S G					
R G P A T * C A R G R C R S A P A A					
AGC GGG TCC ACG GCA AGT TGT ACG AGC TGG CGC CGT AGC TCT TCG TCC ACG ACG					
30033 30042 30051 30060 30069 30078					
TCG CCC AGG TGC CGT TCA ACA TGC TCG ACC GCG GCA TCG AGA AGC AGG TGC TGC					
S P R C R S T C S T A A S R S R C C					
R P G A V Q H A R P R H R E A G A A					
A Q V P F N M L D R G I E K Q V L P					
V A G S G P D A D H P P R R E R V P					
C Q A A A P I P T M P H D A S A C P					
A S R R Q R S R R * P T T P A R A R					
GCG TGA CGC GGC GAC GGC CCT AGC CGC AGT ACC CCA CCA GCC GCG AGC GCG TGC					
30087 30096 30105 30114 30123 30132					
CGC ACT GCG CCG CTG CCG GGA TCG GCG TCA TGG GGT GGT CGG CGC TCG CGC ACG					
R T A P L P G S A S W G G R R S R T					
A L R R C R D R R H G V V G A R A R					
H C A A A G I G V M G W S A L A H G					
H Q R S R E T G A L H E R G V V P A					
T S A P A S R G P W T N G G S S Q R					
P A P P L A G D R G P T G A R R S A					
CCC ACG ACC GCC CTC GCG AGG CAG GGC CGG TCC ACA AGG GCG GGC TGC TGA CCG					
30141 30150 30159 30168 30177 30186					
GGG TGC TGG CGG GAG CGC TCC GTC CCG GCC AGG TGT TCC CGC CCG ACG ACT GGC					
G C W R E R S V P A R C S R P T T G					
G A G G S A P S R P G V P A R R L A					
V L A G A L R P G Q V F P P D D W R					
G V G R G E L A F A E G L Q E R G H					
A * E G V K W P S R K A L S S A A T					
R R S G S R G P R V S R W A A R P R					
CGC GGA TGA GGG GCT GGA AGG TCC CGC TTG CGA AGC GGT TCG ACG AGC GCC GGC					
30195 30204 30213 30222 30231 30240					
GCG CCT ACT CCC CGA CCT TCC AGG GCG AAC GCT TCG CCA AGC TGC TCG CGG CCG					
A P T P R P S R A N A S P S C S R P					
R L L P D L P G R T L R Q A A R G R					
A Y S P T F Q G E R F A K L L A A V					
V P Q L L E G G F A P V T D G L E R					
S R S F S N A A S R P C L T A W S A					

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P	G	A	S	P	T	R	R	R	V	R	A	C	H	R	G	A	R
ACC	TGG	CCG	ACT	TCC	TCA	AGC	GGC	GGC	TTG	CGC	CCG	TGT	CAC	AGC	GGG	TCG	AGC
30249		30258		30267		30276		30285		30294							
TGG	ACC	GGC	TGA	AGG	AGT	TCG	CCG	CCG	AAC	GCG	GGC	ACA	GTG	TCG	CCC	AGC	TCG
W	T	G	*	R	S	S	P	P	N	A	G	T	V	S	P	S	S
G	P	A	E	G	V	R	R	R	T	R	A	Q	C	R	P	A	R
D	R	L	K	E	F	A	A	E	R	G	H	S	V	A	Q	L	A
K	G	P	H	Q	G	V	G	R	S	D	D	R	D	D	A	G	L
S	A	Q	T	S	A	W	G	E	P	T	M	G	T	M	P	A	W
A	Q	R	P	A	P	G	G	R	P	L	*	G	P	*	R	R	G
GCG	AAC	GGA	CCC	ACG	ACC	GGG	TGG	GGA	GCC	CTC	AGT	AGG	GCC	AGT	AGC	CGC	GGG
30303		30312		30321		30330		30339		30348							
CGC	TTG	CCT	GGG	TGC	TGG	CCC	ACC	CCT	CGG	GAG	TCA	TCC	CGG	TCA	TCG	GCG	CCC
R	L	P	G	C	W	P	T	P	R	E	S	S	R	S	S	A	P
A	C	L	G	A	G	P	P	L	G	S	H	P	G	H	R	R	P
L	A	W	V	L	A	H	P	S	G	V	I	P	V	I	G	A	Q
K	G	L	V	Q	L	V	A	D	P	G	H	V	E	V	E	V	L
S	G	S	C	R	S	S	L	T	R	A	T	S	R	S	R	S	S
A	E	R	A	G	P	P	C	R	G	P	R	P	G	R	G	R	R
TCG	AAG	GGC	TCG	TGG	ACC	TCC	TGT	CGC	AGG	CCC	GGC	ACC	TGG	AGC	TGG	AGC	TGC
30357		30366		30375		30384		30393		30402							
AGC	TTC	CCG	AGC	ACC	TGG	AGG	ACA	GCG	TCC	GGG	CCG	TGG	ACC	TCG	ACC	TCG	ACG
S	F	P	S	T	W	R	T	A	S	G	P	W	T	S	T	S	T
A	S	R	A	P	G	G	Q	R	P	G	R	G	P	R	P	R	R
L	P	E	H	L	E	D	S	V	R	A	V	D	L	D	L	D	E
G	L	Q	A	G	Q	V	F	Q	Q	G	V	R	G	L	Q	V	A
A	S	S	R	A	R	S	S	S	S	A	S	A	G	S	S	S	P
P	R	A	A	R	G	P	R	V	A	P	R	R	A	R	A	P	R
TCC	GGC	TCG	ACG	CGC	GGG	ACC	TGC	TTG	ACG	ACC	GGC	TGC	GCG	GGC	TCG	ACC	TGC
30411		30420		30429		30438		30447		30456							
AGG	CCG	AGC	TGC	GCG	CCC	TGG	ACG	AAC	TGC	TGG	CCG	ACG	CGC	CCG	AGC	TGG	ACG
R	P	S	C	A	P	W	T	N	C	W	P	T	R	P	S	W	T
G	R	A	A	R	P	G	R	T	A	G	R	R	A	R	A	G	R
A	E	L	R	A	L	D	E	L	L	A	D	A	P	E	L	D	G
A	P	V	L	R	G	R	A	F	L	P	R	D	S	T	A	V	S
L	P	S	W	G	G	A	R	S	S	L	D	T	Q	P	P	W	P
C	R	P	G	V	A	R	A	R	L	S	T	P	R	L	H	G	R
CGT	CGC	CCC	TGG	TTG	GCG	GGC	GCG	CGC	TTC	TCT	CCA	GCC	AGA	CTC	CAC	CGG	TGC
30465		30474		30483		30492		30501		30510							
GCA	GCG	GGG	ACC	AAC	CGC	CCG	CGC	GCG	AAG	AGA	GGT	CGG	TCT	GAG	GTG	GCC	ACG
A	A	G	T	N	R	P	R	A	K	R	G	R	S	E	V	A	T
Q	R	G	P	T	A	R	A	R	E	R	V	G	L	R	W	P	R
S	G	D	Q	P	P	A	R	E	E	R	S	V	*	G	G	H	G

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I G T G W S L S Q Y S W N V T S I M
S A R G G A * R S T R G T S R R S *
L H G D G L E V V P V V L Q G D L D

CTC TAC GGG CAG GGG GTC GAG TTG CTG ACC ATG CTG GTC AAC TGG CAG CTC TAG
30519 30528 30537 30546 30555 30564
GAG ATG CCC GTC CCC CAG CTC AAC GAC TGG TAC GAC CAG TTG ACC GTC GAG ATC

E (M) P V P Q L N D W Y D Q L T V E I
R C P S P S S T T G T T S * P S R S
D A R P P A Q R L V R P V D R R D H

S R T Q A G S E P Q R S M P A P P P
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D F P D A G G V G A A Q V D T G A A

TAG CTT GCC CAG ACG CGG GGG CTG AGG CCG ACG GAC CTG TAG CCA CGG CCG CCG
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ATC GAA CGG GTC TGC GCC CCC GAC TCC GGC TGC CTG GAC ATC GGT GCC GGC GGC

I E R V C A P D S G C L D I G A G G
S N G S A P P T P A A W T S V P A A
R T G L R P R L R L P G H R C R R R

S I R V C M R R A A G R P R C K A T
R S G * A C A G P R G A P G A S R P
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A R S S R T C A G P P R G A G T S R
R D P H A H A P G R P A G P A L R G

S G S G C Y A S C S R R S K G S T V
R A A A A T R R V A A G R S G R P *
D L R Q R L V G F L Q A A V E G L D

CAG CTC GGC GAC GGC GTC ATG CGG CTT GTC GAC GCG GCG CTG AAG GGG CTC CAG
30681 30690 30699 30708 30717 30726
GTC GAG CCG CTG CCG CAG TAC GCC GAA CAG CTG CGC CGC GAC TTC CCC GAG GTC

V E P L P Q Y A E Q L R R D F P E V
S S R C R S T P N S C A A T S P R S
R A A A A V R R T A A P R L P R G H

T H C A A A A A V G P R S L K T W T
P I A P R R P R W G Q G P C S R G R
R Y P L G G R G G G R A P V A E D V

TGC CAT ACC GTC CGG CGG CGC CGG CGG TGG GGA CCG GCC CTG TCG AAG CAG GTG
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H D G V G A V A A Q A A T R V V A G

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V V S N P G Y S G L R R R P Y D R A
W S P T P A T A A C A A V R T T A P
G L Q P R L Q R P A P P S V R P R R

S V R S S I A T S V T R R S S T T G
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V L G Q F L D R H V G Y T Q V V D D

CTG CTC TGG GAC CTT CTC TAG CGC CAC CTG TGG CAT GCA GAC CTG CTG CAG CAG
30843 30852 30861 30870 30879 30888
GAC GAG ACC CTG GAA GAG ATC GCG GTG GAC ACC GTA CGT CTG GAC GAC GTC GTC

D E T L E E I A V D T V R L D D V V
T R P W K R S R W T P Y V W T T S S
R D P G R D R G G H R T S G R R R P

S S A R T S R T L T S T S P P S T P
R P R G R P G P * P P R P P R R P P
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GGG CTC CTG CGG GCG CAC CTG GAC CAG TTC CAC CTG CAC CTC CCG CCG CTC CAC
30897 30906 30915 30924 30933 30942
CCC GAG GAC GCC CGC GTG GAC CTG GTC AAG GTG GAC GTG GAG GGC GGC GAG GTG

P E D A R V D L V K V D V E G G E V
P R T P A W T W S R W T W R A A R W
R G R P R G P G Q G G R G G R R G G

A R R P A A S S S R R C D G T T T K
R G A R P P R A A A G A T G R P P R
A G Q A P R G L Q Q A P L G G H H D

CCG CGG GAC GCG CCC CGC CGG CTC GAC GAC GCG GCC GTC AGG GGG CAC CAC CAG
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GGC GCC CTG CGC GGG GCG GCC GAG CTG CTG CGC CGG CAG TCC CCC GTG GTG GTC

G A L R G A A E L L R R Q S P V V V
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S C P P S W A I R S * P V V L S S R
R V R R R G R S A R S R C W W R R G
E F V A A V V R H A V V A G G A V V

AAG CTT GTG CCG CCG CTG GTG CGC TAC GCG CTG ATG CCG TGG TGG TCG CTG CTG

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F E H G	G D H A	M R D Y	G T T S	D D	
S N T A	A T T R	C A T T	A P P A	T T	
R T R R	R P R D	A R L R	H H Q R	R R P	
H A S S	T S S R	P * V S	Y V R G	P Q	
T P A A	P R R G	R S C A	T C G A	P S	
Q P R Q	Q D V V	E A V R	Q V G Q	R A	
GAC ACC CGC	GAC CAG CTG	CTG GAG CCG	ATG TGC GAC	ATG TGG GAC	GGC CCG
31059	31068	31077	31086	31095	31104
CTG TGG GCG	CTG CTC GAC	GAC CTC GGC	TAC ACG CTG	TAC ACC CTG	CCG GGC
L W A L	L V D D	L G Y T	L Y T L	P G	
C G R C	W S T T	S A T R	C T P C	R A	
V G A A	G R R P	R L H A	V H P A	G L	
S A A S	G P R S	R A A R	A A S S	R V	
A P P P	A P G R	G P R E	R R R A	A C	
P Q R R	L R A E	V P G S	E G G L	Q A	
ACC GAC CGC	CGC CTC GGC	CCG GAG CTG	GCC CGG CGA	GAG CGG CGG	CTC GAC GCG
31113	31122	31131	31140	31149	31158
TGG CTG GCG	GCG GAG CCG	GGC CTC GAC	CGG GCC GCT	CTC GCC GCC	GAG CTG CGC
W L A A	E P G L	D R A A	L A A E	L R	
G W R R	S R A S	T G P L	S P P S	C A	
A G G G	A G P R	P G R S	R R R A	A H	
C H Y K	T A S R	P G R D	A R E G	R P	
A T T S	R R R D	R A G T	R G N G	G L	
R L P V	E D G I	A P G Q	G G T G	G S	
TGC GTC ACC	ATG AAG CAG	CGG CTA GCG	CCC GGG GAC	AGG CGG GCA	AGG GGG GCT
31167	31176	31185	31194	31203	31212
ACG CAG TGG	TAC TTC GTC	GCC GAT CGC	GGG CCC CTG	TCC GCC CGT	TCC CCC CGA
T Q W Y	F V A D	R G P L	S A R S	P R	
R S G T	S S P I	A G P C	P P V P	P P E	
A V V L	R R R S	R A P V	R P F P	P R	
S T C E	V H G I	C S G G	G G E G	G E R	
L L A N	S M V S	V V A G	E R A E	R A	
S F H M	R C S R	Y L Q G	R G R R	G R	
CCT CTT CAC	GTA AGC TGT	ACT GGC TAT	GTT GAC GGG	GGA GGG AGC	GGA GGG AGC
31221	31230	31239	31248	31257	31266
GGA GAA GTG	CAT TCG ACA	TGA CCG ATA	CAA CTG CCC	CCT CCC TCG	CCT CCC TCG
G E V H	S T * P	I Q L P	P P P S	P P S	
E K C I	R H D R	Y N C P	L P P R	L P R	
R S A F	D (M) T D	T T A P	S L A S	L A	
D G F A	M D P L	G A Q E	R L V D	G G	
T G S H	W I R S	V P R S	G S C T	V A	

03

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P	G	R	I	G	Y	G	P	S	R	G	A	G	P	A	R	*	R
GCC	AGG	GGC	TTA	CGG	TAT	AGG	CCC	TCT	GGC	CGG	ACG	AGG	GCC	TCG	TGC	AGT	GGC
	31275			31284			31293			31302			31311			31320	
CGG	TCC	CCG	AAT	GCC	ATA	TCC	GGG	AGA	CCG	GCC	TGC	TCC	CGG	AGC	ACG	TCA	CCG
R	S	P	N	A	I	S	G	R	P	A	C	S	R	S	T	S	P
G	P	R	M	P	Y	P	G	D	R	P	A	P	G	A	R	H	R
V	P	E	C	H	I	R	E	T	G	L	L	P	E	H	V	T	A
E	P	P	L	T	H	Q	G	H	A	A	Q	Q	A	G	G	F	Q
K	R	R	C	P	T	S	A	T	R	P	R	S	L	G	A	S	S
R	G	A	A	P	H	A	P	R	A	R	G	A	S	G	R	R	V
GGA	AGG	CCG	CCG	TCC	CAC	ACG	ACC	GGC	ACG	CGC	CGG	ACG	ACT	CGG	GGC	GGC	TTG
	31329			31338			31347			31356			31365			31374	
CCT	TCC	GGC	GGC	AGG	GTG	TGC	TGG	CCG	TGC	GCG	GCC	TGC	TGA	GCC	CCG	CCG	AAC
P	S	G	G	R	V	C	W	P	C	A	A	C	*	A	P	P	N
L	P	A	A	G	C	A	G	R	A	R	P	A	E	P	R	R	T
F	R	R	Q	G	V	L	A	V	R	G	L	L	S	P	A	E	L
L	R	H	L	L	R	R	G	A	Q	D	V	V	G	P	A	G	P
S	D	T	C	S	A	A	A	P	R	I	S	S	A	Q	R	V	R
P	T	P	A	P	P	P	P	R	G	S	R	R	R	R	A	C	G
ACC	TCA	GCC	ACG	TCC	TCC	GCC	GCC	GGC	CGG	ACT	AGC	TGC	TGC	GGC	CCG	CGT	GGG
	31383			31392			31401			31410			31419			31428	
TGG	AGT	CGG	TGC	AGG	AGG	CGG	CGG	CCG	GCC	TGA	TCG	ACG	ACG	CCT	GGC	GCA	CCC
W	S	R	C	R	R	R	R	P	A	*	S	T	T	P	G	A	P
G	V	G	A	G	G	G	G	R	P	D	R	R	R	L	A	H	P
E	S	V	Q	E	A	A	A	G	L	I	D	D	A	W	R	T	R
G	H	V	V	G	D	P	R	Q	L	G	V	L	G	V	R	G	R
D	M	C	S	V	M	Q	V	S	S	G	W	S	G	S	A	A	G
T	W	A	R	C	W	R	S	A	P	A	G	R	A	R	R	P	G
CCA	GGT	ACG	TGC	TGT	GGT	AGA	CCT	GCG	ACC	TCG	GGG	TGC	TCG	GGC	TGC	GCC	GGG
	31437			31446			31455			31464			31473			31482	
GGT	CCA	TGC	ACG	ACA	CCA	TCT	GGA	CGC	TGG	AGC	CCC	ACG	AGC	CCG	ACG	CGG	CCC
G	P	C	T	T	P	S	G	R	W	S	P	T	S	P	T	R	P
V	H	A	R	H	H	L	D	A	G	A	P	R	A	R	R	G	P
S	M	H	D	T	I	W	T	L	E	P	H	E	P	D	A	A	P
D	A	D	L	V	D	H	V	L	G	R	H	H	G	P	Q	R	A
T	R	M	S	Y	T	M	S	L	D	G	T	I	A	R	S	A	P
P	G	C	R	T	R	*	P	C	T	G	P	S	P	G	A	P	P
GCC	AGG	CGT	AGC	TCA	TGC	AGT	ACC	TGT	TCA	GGG	GCC	ACT	ACC	GGG	CCG	ACC	GCC
	31491			31500			31509			31518			31527			31536	
CGG	TCC	GCA	TCG	AGT	ACG	TCA	TGG	ACA	AGT	CCC	CGG	TGA	TGG	CCC	GGC	TGG	CGG
R	S	A	S	S	T	S	W	T	S	P	R	*	W	P	G	W	R
G	P	H	R	V	R	H	G	Q	V	P	G	D	G	P	A	G	G
V	R	I	E	Y	V	M	D	K	S	P	V	M	A	R	L	A	G

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      M R Q Q Q A G H L G Q D P R V E D G
      W G S S S R A M S V R T P G F K M G
      G D A A A A R W P S G P R A S S * G
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CGG TAG GCG ACG ACG ACG CGC GGT ACC TCT GGG ACC AGC CCG GCT TGA AGT AGG
      31545          31554          31563          31572          31581          31590
GCC ATC CGC TGC TGC TGC GCG CCA TGG AGA CCC TGG TCG GGC CGA ACT TCA TCC
      -----
      A I R C C C A P W R P W S G R T S S
      P S A A A A R H G D P G R A E L H P
      H P L L L R A M E T L V G P N F I P
      -----
      G P V A H H E L G G R A R G P Q G P
      V Q S L M T N L V V A P A G R S A Q
      W R P C C P T * S W R P R A G A P R
      -----
GGT GGA CCC TGT CGT ACC ACA AGT TCT GGT GGC GCC CGC GCG GGG CCG ACC GGA
      31599          31608          31617          31626          31635          31644
CCA CCT GGG ACA GCA TGG TGT TCA AGA CCA CCG CGG GCG CGC CCC GGC TGG CCT
      -----
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      H L G Q H G V Q D H R G R A P A G L
      T W D S M V F K T T A G A P R L A W
      -----
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      C R S P W I Y E S A T A T V P P P R
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GGC ACC GTG ACG GCC AGA TGT ACT CCG ATG CCG TCG CCG TCA CCG GCG GCG GTC
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      A P * R P D V L R C R R R H R R S
      H R D G Q M Y S D A V A V T G G G R
      -----
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      T M S T P M * R S W A G S S L Q T Q
      R * R R P C R G R G R A R P C S H R
      -----
CGC AGT AGC TGC ACC CGT AGA TGG AGC TGG TGC GCG GGC TCC TGT TGA CAC AGA
      31707          31716          31725          31734          31743          31752
GCG TCA TCG ACG TGG GCA TCT ACC TCG ACC ACG CGC CCG AGG ACA ACT GTG TCT
      -----
      A S S T W A S T S T T R P R T T V S
      R H R R G H L P R P R A R G Q L C L
      V I D V G I Y L D H A P E D N C V W
      -----
      G D R L G V V P L V L L D G L G G V
      A M G C D L * Q S S S C T V S V A S
      P W G A T W S S P P R A P * R S R R
      -----
CCC GGT AGG GCG TCA GGT TGA TGA CCC TCC TGC TCG TCC AGT GGC TCT GGC GGC
      31761          31770          31779          31788          31797          31806
GGG CCA TCC CGC AGT CCA ACT ACT GGG AGG ACG AGC AGG TCA CCG AGA CCG CCG
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 G A * R W R T P R S R P R G R R S A

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 A G R R P A A Q H P D T A R R P G G
 P G D A L L H N I L T L H G A P A V

 H A L L A P D D V V L V P G A L H L
 T P L C R L T T * * S Y R G P S T S
 P P C A A C P R R S R T G A R R P P

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 31923 31932 31941 31950 31959 31968
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 G G Q A A Q G R L L R V P A R R G G
 V G K Q R R V V Y Y E Y R P G E V E

 T L E A R V H G L V H P E L L L H Q
 R * S P G C T G S Y T P S L C C T S
 A D A R G A R A R T R P A * A A P A

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 S V S S A R T C P S T W G S S S R C
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 A R A Q L L P G R G P L V P V L L G
 R A H R S C R A A D P S C R S S S G
 A R T G P A A P R T R P A G P R P A

 ACG CGC GCA CGG ACC TCG TCG CCC GGC GCA GGC CCC TCG TGG CCC TGC TCC TCG

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C A R A W S S G P R P G S T G T R S
A R V P G A A G R V R G A P G R G A
R A C L E Q R A A S G E H R D E E P
E L V A R H L L V P E P V L R G R D
K S Y R G T S C Y R S Q S S D G A I
R R T G G P P A T G A R P R T A R S
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* P D S V A S S P N S R T T G S P V
R R I R S P A P R T R G R R A R P C
GGA TGC CTA GGC TCT GCC GCG ACC TGC CCA AGC TGG AGC AGC ACG GGC TCC CGT
34245 34254 34263 34272 34281 34290
CCT ACG GAT CCG AGA CGG CGC TGG ACG GGT TCG ACC TCG TCG TGC CCG AGG GCA
P T D P R R R W T G S T S S C P R A
L R I R D G A G R V R P R R A R G H
Y G S E T A L D G F D L V V P E G T
H A G Q E T G V A R A L G G G Y A D
T H A R S P G L P A P L V V A T R M
R T R G A R D W R R P C S W R R V C
GGC ACA CGC GGG ACG AGC CAG GGT TGC CGC GCC CGT TCT GGT GGC GGC ATG CGT
34299 34308 34317 34326 34335 34344
CCG TGT GCG CCC TGC TCG GTC CCA ACG GCG CGG GCA AGA CCA CCG CCG TAC GCA
P C A P C S V P T A R A R P P P Y A
R V R P A R S Q R R G Q D H R R T H
V C A L L G P N G A G K T T A V R I
Q A G Q E L R V A A T G Q H G A E I
R L V R S L G S P P R A R T A P R S

HBC

G S C G A * A P R R G H G P P R G R
 AGG ACT CGT GGG ACG AGT TCG GCC TGC CGC CGG CAC GGG ACC ACC GGC CGG AGC
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 TCC TGA GCA CCC TGC TCA AGC CGG ACG GCG GCC GTG CCC TGG TGG CCG GCC TCG
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 P E H P A Q A G R R P C P G G R P R
 L S T L L K P D G G R A L V A G L D
 H G A L G G L H A P V D A D G A L V
 T V R S A A S T R R F M P T V P W Y
 H S G R P R R P A G S C R R * R G T
 TAC ACT GGG CGC TCC GGC GGC TCC ACG CGG CCT TGT AGC CGC AGT GGC CGG TCA
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 C D P R G R R G A P E H R R H R P V
 V T R E A A E V R R N I G V T G Q Y
 R R D L L D Q G A A L V Q L H P A A
 G A T S S I R V P R S F R S I H P R
 G P P R P S G S R G R S G P S T P G
 TGG GCC GCC AGC TCC TCT AGG ACT GGC CGG CGC TCT TGG ACC TCT ACA CCC CGG
 34461 34470 34479 34488 34497 34506
 ACC CGG CGG TCG AGG AGA TCC TGA CCG GCC GCG AGA ACC TGG AGA TGT GGG GCC
 T R R S R R S * P A A R T W R C G A
 P G G R G D P D R P R E P G D V G P
 P A V E E I L T G R E N L E M W G R
 E V V H A A P L R L A T R F F Q Q L
 R * W T P R L S A C R R V S S S S
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 P L P R G P Q G G A A P Y G R T A G
 L Y H V G R R E A Q R R T E E L L E
 L E V Q G L G G V L P E L V V R A T
 C N S R V S A A S L R S L C * E P P
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 S S S T * P R P P T S G S S T T R A
 A V R P D R G R R Q A A Q A L L G R
 Q F D L T E A A D K R L K H Y S G G

H	P	A	P	E	V	Q	G	G	S	E	E	G	H	G	L	H	E
I	R	R	L	S	S	R	A	A	P	N	K	V	T	G	L	T	S
Y	A	A	C	A	R	G	P	R	R	I	R	*	R	A	W	P	A

CAT	ACG	CCG	CGT	CCG	AGC	TGG	ACC	GGC	GGC	CTA	AGA	AGT	GGC	ACG	GGT	TCC	ACG
	34623			34632			34641			34650			34659			34668	
GTA	TGC	GGC	GCA	GGC	TCG	ACC	TGG	CCG	CCG	GAT	TCT	TCA	CCG	TGC	CCA	AGG	TGC

V	C	G	A	G	S	T	W	P	P	D	S	S	P	C	P	R	C
Y	A	A	Q	A	R	P	G	R	R	I	L	H	R	A	Q	G	A
M	R	R	R	L	D	L	A	A	G	F	F	T	V	P	K	V	L

E	Q	V	L	G	G	G	A	E	V	R	A	V	A	V	L	D	P
K	R	S	S	G	V	V	P	R	S	G	R	L	R	L	S	T	Q
R	G	P	R	A	W	W	R	G	R	G	A	C	G	C	R	P	R

AGA	AGG	ACC	TGC	TCG	GGT	GGT	GGC	CGG	AGC	TGG	GCG	CGT	TGG	CGT	TGC	TCC	AGA
	34677			34686			34695			34704			34713			34722	
TCT	TCC	TGG	ACG	AGC	CCA	CCA	CCG	GCC	TCG	ACC	CGC	GCA	ACC	GCA	ACG	AGG	TCT

S	S	W	T	S	P	P	P	A	S	T	R	A	T	A	T	R	S
L	P	G	R	A	H	H	R	P	R	P	A	Q	P	Q	R	G	L
F	L	D	E	P	T	T	G	L	D	P	R	N	R	N	E	V	W

L	H	D	T	R	H	D	L	L	A	G	G	H	Q	E	G	R	L
F	I	T	R	E	I	T	S	C	P	V	V	T	S	S	V	V	C
S	S	P	G	N	S	P	R	A	P	C	W	R	A	A	*	W	A

CCT	TCT	ACC	AGG	CAA	GCT	ACC	AGC	TCG	TCC	CGT	GGT	GGC	ACG	ACG	AGT	GGT	GCG
	34731			34740			34749			34758			34767			34776	
GGA	AGA	TGG	TCC	GTT	CGA	TGG	TCG	AGC	AGG	GCA	CCA	CCG	TGC	TGC	TCA	CCA	CGC

G	R	W	S	V	R	W	S	S	R	A	P	P	C	C	S	P	R
E	D	G	P	F	D	G	R	A	G	H	H	R	A	A	H	H	A
K	M	V	R	S	M	V	E	Q	G	T	T	V	L	L	T	T	Q

V	Q	L	L	G	V	P	E	G	V	L	D	R	H	D	V	R	A
Y	R	S	S	A	S	R	S	A	S	W	I	E	T	I	S	A	P
T	G	P	P	P	R	G	A	R	R	G	S	R	P	S	R	R	P

TCA	TGG	ACC	TCC	TCC	GGC	TGG	CCG	AGC	GGC	TGG	TCT	AGA	GCC	ACT	AGC	TGC	GCC
	34785			34794			34803			34812			34821			34830	
AGT	ACC	TGG	AGG	AGG	CCG	ACC	GGC	TCG	CCG	ACC	AGA	TCT	CGG	TGA	TCG	ACG	CGG

S	T	W	R	R	P	T	G	S	P	T	R	S	R	*	S	T	R
V	P	G	G	G	R	P	A	R	R	P	D	L	G	D	R	R	G
Y	L	E	E	A	D	R	L	A	D	Q	I	S	V	I	D	A	G

A	P	D	D	L	A	G	G	L	G	Q	L	G	Q	H	A	A	V
R	P	T	T	S	P	V	G	S	V	R	F	D	R	T	P	P	S
G	R	P	R	R	P	C	G	R	S	G	S	T	G	P	P	R	R

CGG	CGC	CCC	AGC	AGC	TCC	CGT	GGG	GGC	TCT	GGG	ACT	TCA	GGG	ACC	ACC	CGC	CGC
	34839			34848			34857			34866			34875			34884	
GCC	GCG	GGG	TCG	TCG	AGG	GCA	CCC	CCG	AGA	CCC	TGA	AGT	CCC	TGG	TGG	GCG	GCG

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A A G S S R A P P R P * S P W W A A
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R G V V E G T P E T L K S L V G G D
P D H H G Q R G G L V Q R G G R S L
R I T T V R A A V S S R D A A A A *
G S R P S G P P W R P G T P R R P E

TGG CCT AGC ACC ACT GGG ACC GCC GGT GGC TCC TGG ACA GCC GGC GGC GCC GAG
34893 34902 34911 34920 34929 34938
ACC GGA TCG TGG TGA CCC TGG CGG CCA CCG AGG ACC TGT CGG CCG CCG CGG CTC

T G S W * P W R P P R T C R P P R L
P D R G D P G G H R G P V G R R G S
R I V V T L A A T E D L S A A A A Q
D G A E R P G L G L H V G L G A T D
T A R K V P V S G S T S A S A R R I
P R G S * P S R A R P P R R P G G Y

TCC AGC GGG CGA AGT GCC CCT GGC TCG GGC TCC ACC TGC GGC TCC GGC CGG CAT
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R S P A S R G P S P R W T P R P A V
G R P L H G D R A R G G R R G P P Y
V A R F T G T E P E V D A E A R R I
V R R Y A V P D A V E H L D H L Q Q
S A G T R S R T P S R T S I T C S S
R R A P V R G P R R G R P S R A A A

AGC TGC GCG GCC ATG CGC TGG CCC AGC CGC TGG AGC ACC TCT AGC ACG TCG ACG
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TCG ACG CGC CGG TAC GCG ACC GGG TCG GCG ACC TCG TGG AGA TCG TGC AGC TGC

S T R R Y A T G S A T S W R S C S C
R R A G T R P G R R P R G D R A A A
D A P V R D R V G D L V E I V Q L L
A P L A V A H D I H R Q A A R R Q I
R P C P W P T T S T D S R R G V S S
A R A P G R R P R H T A A G G S A P

ACG CGC CCG TCC CGG TGC CGC ACC AGC TAC ACA GCG ACG CGG CGG GCT GCG ACC
35055 35064 35073 35082 35091 35100
TGC GCG GGC AGG GCC ACG GCG TGG TCG ATG TGT CGC TGC GCC GCC CGA CGC TGG

C A G R A T A W S M C R C A A R R W
A R A G P R R G R C V A A P P D A G
R G Q G H G V V D V S L R R P T L D
V H E Q V R G V T G T S P L L R D S
S T N R C A V L R A P R L F S G T P
H R T G A R S W G H R D F S P A P R

TAC TGC ACA AGG ACG TGC GCT GGT TGG CAC GGC CAG CTT CCT TCC TCG GCC AGC

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 ATG ACG TGT TCC TGC ACG CGA CCA ACC GTG CCG GTC GAA GGA AGG AGC CGG TCG

 M T C S C T R P T V P V E G R S R S
 * R V P A R D Q P C R S K E G A G R
 D V F L H A T N R A G R R K E P V G

 S P R A P F P G S P R * R R S P P R
 H H G H Q S P G A P G D G V A P H D
 I I A T S P L A R Q A T V S P Q T T

 CTA CTA CCG GCA CGA CCC TTC CCG GGC GAC CCG GCA GTG GCT GCC GAC CCA CCA
 35163 35172 35181 35190 35199 35208
 GAT GAT GGC CGT GCT GGG AAG GGC CCG CTG GGC CGT CAC CGA CGG CTG GGT GGT

 D D G R A G K G P L G R H R R L G G
 (M) M A V L G R A R W A V T D G W V V
 * W P C W E G P A G P S P T A G W S

 G R W C S * S A A C D R A S R R S C
 A A G V H D V P P A I G P Q D E V A
 P R A L M I L Q R R L G P S I K * Q

 GCC GGC GCG GTT GTA CTA GTT GAC CGC CGC GTT AGG GCC CGA CTA GAA GAT GAC
 35217 35226 35235 35244 35253 35262
 CGG CCG CGC CAA CAT GAT CAA CTG GCG GCG CAA TCC CGG GCT GAT CTT CTA CTG

 R P R Q H D Q L A A Q S R A D L L L
 G R A N M I N W R R N P G L I F Y C
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 S T G S * S P P R R T R T R C R W T
 H H E R D H R H D E P V H E A A G H
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 35271 35280 35289 35298 35307 35316
 CAT GAT GTT CCC GAT CAT GAC GGT GGT CTT CGG GTA CGT GTT CGG CAG CGC CAT

 H D V P D H D G G L R V R V R Q R H
 M M F P I M T V V F G Y V F G S A M
 * C S R S * R W S S G T C S A A P C

 R P P R R H S G R T G S A P A T R V
 G H R A A T V V A L E Q H R P Q E S
 D T A P P P S * R S N R I G P S N P

 CAG GCA CCG CCC GCC GCC ACT GAT GGC GCT CAA GGA CTA CGG CCC CGA CAA GCC
 35325 35334 35343 35352 35361 35370
 GTC CGT GGC GGG CGG CGG TGA CTA CCG CGA GTT CCT GAT GCC GGG GCT GTT CGG

 V R G G R R * L P R V P D A G A V R
 S V A G G G D Y R E F L M P G L F G
 P W R A A V T T A S S * C R G C S D

 P S S T R H R * W C A P R * W R P R
 L R H H E T D D G A H Q G D G A R D

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C	A	I	I	N	P	T	T	V	L	M	S	A	T	V	L	A	T
TGT	CCG	CTA	CTA	CAA	GCC	ACA	GCA	GTG	GTC	GTA	CGA	CCG	GCA	GTG	GTC	GCG	CCA
	35379			35388			35397			35406			35415			35424	
ACA	GGC	GAT	GAT	GTT	CGG	TGT	CGT	CAC	CAG	CAT	GCT	GGC	CGT	CAC	CAG	CGC	GGT
T	G	D	D	V	R	C	R	H	Q	H	A	G	R	H	Q	R	G
Q	A	M	M	F	G	V	V	T	S	M	L	A	V	T	S	A	V
R	R	*	C	S	V	S	S	P	A	C	W	P	S	P	A	R	S
G	P	R	S	R	G	T	G	S	S	A	S	P	A	T	P	R	R
G	P	A	H	G	V	P	E	A	R	H	R	H	R	L	R	A	D
E	R	P	T	V	S	R	N	R	E	I	G	I	A	C	D	P	T
GAG	GGC	CCC	GCA	CTG	GCT	GGC	CAA	GGC	GAG	CTA	CGG	CTA	CCG	CGT	CAG	CCC	GCA
	35433			35442			35451			35460			35469			35478	
CTC	CCG	GGG	CGT	GAC	CGA	CCG	GTT	CCG	CTC	GAT	GCC	GAT	GGC	GCA	GTC	GGG	CGT
L	P	G	R	D	R	P	V	P	L	D	A	D	G	A	V	G	R
S	R	G	V	T	D	R	F	R	S	M	P	M	A	Q	S	G	V
P	G	A	*	P	T	G	S	A	R	C	R	W	R	S	R	A	S
A	P	G	C	S	R	R	C	T	*	S	A	S	R	A	*	S	G
R	Q	A	A	A	E	G	V	H	E	A	R	Q	D	L	E	R	D
A	S	P	R	L	K	A	S	M	N	L	E	S	I	S	S	V	I
GCG	CGA	CCC	GGC	GTC	GAA	GCG	GCT	GTA	CAA	GTC	GAG	CGA	CTA	GCT	CGA	GTG	CTA
	35487			35496			35505			35514			35523			35532	
CGC	GCT	GGG	CCG	CAG	CTT	CGC	CGA	CAT	GTT	CAG	CTC	GCT	GAT	CGA	GCT	CAC	GAT
R	A	G	P	Q	L	R	R	H	V	Q	L	A	D	R	A	H	D
A	L	G	R	S	F	A	D	M	F	S	S	L	I	E	L	T	I
R	W	A	A	A	S	P	T	C	S	A	R	*	S	S	S	R	S
G	R	S	R	V	A	P	R	S	A	S	A	R	P	G	R	C	P
E	E	A	A	S	Q	Q	D	A	P	A	P	V	L	A	G	A	L
R	R	P	Q	P	S	S	T	P	Q	R	Q	C	S	P	G	P	L
GGA	GGA	GCC	GAC	GCC	TGA	CGA	CCA	GCC	GAC	CGC	GAC	CGT	GCT	CCC	GGG	GCC	GTT
	35541			35550			35559			35568			35577			35586	
CCT	CCT	CGG	CTG	CGG	ACT	GCT	GGT	CGG	CTG	GCG	CTG	GCA	CGA	GGG	CCC	CGG	CAA
P	P	R	L	R	T	A	G	R	L	A	L	A	R	G	P	R	Q
L	L	G	C	G	L	L	V	G	W	R	W	H	E	G	P	G	K
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A	P	P	A	R	A	A	A	A	T	A	S	S	A	*	R	P	R
R	Q	R	R	E	P	Q	Q	Q	Q	P	A	V	R	E	D	P	D
A	S	A	A	S	P	S	S	S	S	H	R	*	E	S	M	Q	T
CCG	CGA	CCG	CCG	CGA	GCC	CGA	CGA	CGA	CAC	CGC	GAT	GAG	CGA	GTA	GAC	CCA	
	35595			35604			35613			35622			35631			35640	
GGC	GCT	GGC	GGC	GCT	CGG	GCT	GCT	GCT	GCT	GTG	GCG	CTA	CTC	GCT	CAT	CTG	GGT
G	A	G	G	A	R	A	A	A	A	V	A	L	L	A	H	L	G
A	L	A	A	L	G	L	L	L	L	W	R	Y	S	L	I	W	V
R	W	R	R	S	G	C	C	C	C	G	A	T	R	S	S	G	S

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S R G P A A A A G P P R R P P T H A
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P I * R P S S S G G S A A P A A Y T
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35649 35658 35667 35676 35685 35694
CGG GAT CTA CCT GGG GCT GCT GCT GCC CCC GGA GGC CGC CGG GGC GGC GTA TGT
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R D L P G A A A A P G G R R G G V C
G I Y L G L L L P P E A A G A A Y V
G S T W G C C C P R R P P G R R M C
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A A A R S S A P S C R R R A P S S A
R Q Q G Q R H Q R V G E D R R L L H
G S S G K V I S A F V K T E G S F I
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35703 35712 35721 35730 35739 35748
GCC GCT GCT GCC CTT GAC GAT GCT GGC GAA CAC CTT CGT CTC GCC GGA GAA GAT
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A A A A L D D A G E H L R L A G E D
P L L P L T M L A N T F V S P E K M
R C C P * R C W R T P S S R R R R C
-----
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G A P Q A G D R L P V R Q G G R H G
G P Q S P V M A S H F G S D E V T D
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35757 35766 35775 35784 35793 35802
GCC CGG CTG GCT GGG CAC CAT CGC GGA GTG GAA CCC GCT GTC CTC CAC GGT GTC
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A R L A G H H R G V E P A V L H G V
P G W L G T I A E W N P L S S T V S
P A G W A P S R S G T R C P P R C P
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A Q R S S N P L G P T V P P E Q T A
-----
GCG GAC GGC CCT CGA CAA GCC GTT AGG CCC GCA GTG CCC GCC GAG GAC CCA GCG
35811 35820 35829 35838 35847 35856
CGC CTG CCG GGA GCT GTT CGG CAA TCC GGG CGT CAC GGG CGG CTC CTG GGT CGC
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R L P G A V R Q S G R H G R L L G R
A C R E L F G N P G V T G G S W V A
P A G S C S A I R A S R A A P G S P
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A R S R A P R R R A R V A A P A R R
L V R D L Q G D G P G Y Q Q Q H E E
S C A I S S A T A Q G T S S S T S K
-----
GCT CGT GCG CTA GCT CGA CCG GCA GCG GAC CGG GCA TGA CGA CGA CCA CGA GAA
35865 35874 35883 35892 35901 35910
CGA GCA CGC GAT CGA GCT GGC CGT CGC CTG GCC CGT ACT GCT GCT GGT GCT CTT
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R A R D R A G R R L A R T A A G A L
E H A I E L A V A W P V L L L V L F
S T R S S W P S P G P Y C C W C S S

A A T P A G S G S A * G I V V S S P
H R Q R H A A V P R E A S S W P L L
T G S D T R R * R V S L R H G R F F

GCA CGG CGA CAG CCA CGC GGC GAT GGC CTG CGA GTC GGC TAC TGG TGC CTT CTT
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CGT GCC GCT GTC GGT GCG CCG CTA CCG GAC GCT CAG CCG ATG ACC ACG GAA GAA

R A A V G A P L P D A Q P (M) T T E E 31
V P L S V R R Y R T L S R * P R K K
C R C R C A A T G R S A D D H G R R

F G A I L A S G R A T R S * R V M R
S V P S S R R V A H R G A R G S W A
P F R R H A G F R T G D P E V P G H

CCC TTT GGC CGC TAC TCG CGG CTT GGC GCA CGG CAG GCC GAG ATG GCC TGG TAC
35973 35982 35991 36000 36009 36018
GGG AAA CCG GCG ATG AGC GCC GAA CCG CGT GCC GTC CGG CTC TAC CGG ACC ATG

G K P A M S A E P R A V R L Y R T M
G N R R * A P N R V P S G S T G P C
E T G D E R R T A C R P A L P D H A

R I L S N S S R Q R A I D S D P S I
G S * P I R L V S G P S T A T R P S
A Q D P F E F F A A Q R H R Q G P L

GCG GAC TAG TCC CTT AAG CTT CTT GCG ACG GAC CGC TAC AGC GAC AGG CCC CTC
36027 36036 36045 36054 36063 36072
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R L I R E F E E R C L A M S L S G E
A * S G N S K N A A W R C R C P G R
P D Q G I R R T L P G D V A V R G D

T P P M W G * M P W S A T A A P T Q
R R R C G G R C R G P P P P R R P R
D D A A D V G V D A L L R H G G P D

TAG CAG CCG CCG TAG GTG GGG ATG TAG CCG GTC CTC CGC CAC CGG CGG CCC CAG
36081 36090 36099 36108 36117 36126
ATC GTC GGC GGC ATC CAC CCC TAC ATC GGC CAG GAG GCG GTG GCC GCC GGG GTC

I V G G I H P Y I G Q E A V A A G V
S S A A S T P T S A R R R W P P G S
R R R H P P L H R P G G G G R R G L

A A S V S S S T T V L V W R P W P W
R P A * R R R R R * W C G D R G H G
A R R E G V V V D D G A G M A A M A

ACG CGC CGC GAG TGG CTG CTG CTG CAG CAG TGG TCG TGG GTA GCG CCG GTA CCG

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36135	36144	36153	36162	36171	36180
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C A A L T D D D V V T S T H R G H G					
A R R S P T T T S S P A P I A A M A					
R G A H R R R R R H Q H P S R P W P					
T R A L P A S G F R I S A S S H P V					
R G R W P L R G S A S A P R A T R C					
V D E G L S G V R L P H Q G L Q A A					
GTG CAG GAG CGG TTC CCT CGG CTG GGC TTC GCC TAC GAC CGG CTC GAC ACG CCG					
36189 36198 36207 36216 36225 36234					
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H V L A K G A D P K R M L A E L C G					
T S S P R E P T R S G C W P S C A A					
R P R Q G S R P E A D A G R A V R H					
V A P R F R P R P P E I C A A S T L					
S R R G S G P G R R S S A R R R R *					
R G G A Q V P A A A A R H V G G V D					
TGC TGG CGG CCG GAC TTG GCC CCG GCG CCG CCG AGC TAC GTG CGG CGG CTG CAG					
36243 36252 36261 36270 36279 36288					
ACG ACC GCC GGC CTG AAC CGG GGC CGC GGC GGC TCG ATG CAC GCC GCC GAC GTC					
T T A G L N R G R G G S M H A A D V					
R P P A * T G A A A A R C T P P T S					
D R R P E P G P R R L D A R R R R Q					
R P T * P A L P M T P A P A G M A A					
G R R R H R W R C R P P P R G W R R					
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36297 36306 36315 36324 36333 36342					
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S L G V Y G A N G I V G A G A P I A					
A S A S M A P T A S W G R A P P S P					
P R R L W R Q R H R G G G R P H R R					
P A A Q D N W R R P S P R T A T A K					
R H P R T T G A A R H R G P P P P R					
G T R G P R E L P A T V A P H R H G					
CGG CCA CGC CGG ACC AGC AAG GTC GCC GCG CCA CTG CCG GCC CAC CGC CAC CGG					
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GCC GGT GCG GCC TGG TCG TTC CAG CGG CGC GGT GAC GGC CGG GTG GCG GTG GCC					
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P V R P G R S S G A V T A G W R W P					
R C G L V V P A A R * R P G G G G L					
K P S P A S L W P T T S S A N L R A					
R R R R H A * G P R P A P P T * G P					

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E  E  A  V  T  R  E  A  L  A  H  H  Q  L  R  E  V  Q
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TTC TTC GGC GAC GGT GCG CTC AGC CAG GGC GTG GTG CTG GAG GCG TTC AAC CTG
F  F  G  D  G  A  L  S  Q  G  V  V  L  E  A  F  N  L
S  S  A  T  V  R  S  A  R  A  W  C  W  R  R  S  T  W
L  R  R  R  C  A  Q  P  G  R  G  A  G  G  V  Q  P  G
A  R  H  R  S  G  T  T  N  T  Q  S  F  L  P  *  A  V
P  G  T  A  A  A  P  P  T  R  R  R  S  C  R  S  R  S
R  G  Q  P  P  Q  R  H  H  E  D  A  L  V  V  A  V  R
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R  P  C  G  G  C  R  W  C  S  S  A  R  T  T  A  T  R
G  P  V  A  A  A  G  G  V  R  L  R  E  Q  R  L  R  D
L  R  G  S  S  R  A  S  A  P  S  G  T  S  L  A  A  P
W  G  A  A  P  G  P  A  P  R  R  G  P  P  S  P  P  R
G  A  Q  R  Q  V  P  R  Q  G  A  V  R  H  L  P  R  G
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T  S  L  P  L  D  R  A  L  A  G  D  P  V  E  R  A  A
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Q  P  A  A  G  P  G  A  G  R  R  P  G  G  E  G  G  R
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G  F  G  L  T  A  R  A  V  D  G  M  D  A  D  A  V  A
G  S  A  *  R  R  A  R  W  T  E  W  T  P  T  P  S  P
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R  P  R  R  P  R  R  V  S  G  G  P  R  R  D  W  R  G
V  R  G  G  L  G  D  F  A  A  A  P  A  A  T  G  G  E
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T  R  P  P  R  P  S  N  A  A  A  G  A  A  V  P  P  S
R  G  R  R  G  R  R  T  L  P  P  G  R  R  S  H  L  P

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S Q R V * R N L P W W E K S S C T P
P S G C R G T * R G G S R R P A P P
Q V A A G V P E V A V V G E L L L H

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CTG GAC TGC CGC ACC TAC CGG TTC AAC GGC CAC CAC TCC TTC GAG GAG CAG GTG

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W T A A P T G S T A T T P S R S R W
G L P H L P V Q R P P L L R G A G G

S F * R S S A S T P S H R A R S G S
A S S G P R R R P R R T A H A H G A
P Q V V P V V G L D A L P T R T V R

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C A P R A P A W T V R R P A P S T P
A H P E H P R G R C D G R R H R R R

V L V S I S S A T S N A R A P R A G
S W C A S R R P R P T R G R P G P G
L G A R Q D V L G H L E G A R A P G

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R P A R * S T R P W S S P A R A G P
D Q H A D R R G R G V R P R G P G P

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G V G G L R Q V V K I G V A R G W P

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1004546 02200

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R L S S R I A A S A Y M V A S F W A
G S H H D S P Q V Q T C * R A S G P

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P E * * S D G C T C V H H R A E P G
R S D D L (M) A A L A Y I T A L N Q A BZ
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L H D E M A R D D R V C V F G E D V
P D A E G L D G L A Q V L A E A V S
R I P R V W T A L P R C S R K P S P
A S R G * G P R W P G A R A S R R R

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37053 37062 37071 37080 37089 37098
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C G S A S P R S P R A C T S A S A T
A D R P H P G R Q G P A R A L R R R
R I G L T Q V A K G L H E R F G D G
A D D V G G Q R L L G E G A Q G G A
R T T S V G R D S C A K V L R A V P
V R R R C G G T P A P R * W G P W R

CTG CGC AGC AGC TGT GGG GGG ACA GCC TCG TCC GGA AGT GGT CGG ACC GGT GGC
37107 37116 37125 37134 37143 37152
GAC GCG TCG TCG ACA CCC CCC TGT CGG AGC AGG CCT TCA CCA GCC TGG CCA CCG

D A S S T P P C R S R P S P A W P P
T R R R H P P V G A G L H Q P G H R
R V V D T P L S E Q A F T S L A T G
R R H R P L S R D H L V L D G R Q E
A A I A P C R G T T S Y W I G E S S
R P S P P A A V P R P T G S G R A A

CGC GCC GCT ACC GCC CCG TCG CTG GCC AGC ACC TCA TGG TCT AGG GGA GCG ACG

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R G D G G A A T G R G V P D P L A A
A A M A G Q R P V V E Y Q I P S L L

I Q H E L L D G V L R V L E R Q H G
* R T N S C I A L W A C L N E S I V
R D P T R A S R W G P A C T R A S S

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37215 37224 37233 37242 37251 37260
TCT ATC TGG TGT TCG AGC AGA TCG CCA ACC AGG CGC ACA AGT TCT CGC TGA TGA

S I W C S S R S P T R R T S S R * *
L S G V R A D R Q P G A Q V L A D D
Y L V F E Q I A N Q A H K F S L M T

T P L H L D R D G I Q H R A G T R A
P P C T S T G T V * R T G P E P E R
R H A P P P G P * R D P A P S R N A

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R W A G G G P G H L S G A G L R F A
G G Q V E V P V T Y L V P G S G S R

R A H G A L V G V M G V A Q E C V D
E P M A P W C E S W G * L R N A C T
S P C P R G A S R G D R C G T R V R

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GCT CGG GCA TGG CCG GCC AGC ACT CCG ACC ATC CCT ACA GCC TGT TCG CAC ACG

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L G H G R P A L R P S L Q P V R T R
S G M A G Q H S D H P Y S L F A H V

A D L R D Q G G G G R V G V A Q Q E
P M L V T R G A V A E S A * P R S S
R C * S P G A R W R R P R R G A A

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R H Q D G P A R H R L G R L R P A A
G I K T V L P A T A S D A Y G L L L

R R D T V R V R H G D E R R A R Q H
E A T R S G S G T A T K A G L A S I

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GCC TCT TCT GGC CTG CCG ACC AGC AGT AGC TAC TGC GGT TGG CCT ACA CGC CCA
37701 37710 37719 37728 37737 37746
CGG AGA AGA CCG GAC GGC TGG TCG TCA TCG ATG ACG CCA ACC GGA TGT GCG GGT
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R R R P D G W S S S M T P T G C A G
G E D R T A G R H R * R Q P D V R V
E K T G R L V V I D D A N R M C G F
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P P S T S A V A A S C N S R V A R G
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37755 37764 37773 37782 37791 37800
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S A A R C W P P R R S S S I * R P G
R R R G A G H R G G A V R S D G P A
G G E V L A T A A E Q F D L T A R P
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G A P S G A P R R P * G R R A R A R
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CCC GGC GGG TGA CCC GGC CGG ACG GCG CGG TCA TCC CCT ACG CGC TCG TGC TCG
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P G G * P G R T A R S S P T R S C S
P A G D P A G R R G H P L R A R A R
R R V T R P D G A V I P Y A L V L D
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L R Q Q R V R G L Q G V R D T G D Q
W A N S G S A A W S V S A I R A T R
G P T A A P R P G A S R R S G H R G
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ACC AGG CGT TGC TGC CGG ACG CGG CCC AGC TGA CCG ACG CGA TCC GTG CCG TCC
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P G V A A G R G P A D R R D P C R P
Q A L L P D A A Q L T D A I R A V L
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F H R P V V L G Q S S R S L L H I G
S T V R C S S A R V R V P S F I F E
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37917 37926 37935 37944 37953 37962
TGA AGT GAC GCG GCA CGA CGA GGC CCT GAC TCG AAC GGG AGA GAA GAT GAA TTC
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* S D A A R R G P D S N G R E D E F
E V T R H D E A L T R T G E K (M) N S
K * R G T T R P * L E R E R R * I P GT

A D A A P R S S * R R S W R A T S A
L T P R P D H R D G D P G V L Q A P
S R R G R T T V I V T P V L S S H Q

GCT CGC AGC CGG CGC CCA GCA CTG CTA GTG GCA GCC CTG GTT GCT CGA CAC GAC
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E R R P R V V T I T V G T N E L C W
S V G R G S * R S P S G P T S C A G

P G T D R S R A P C R C W R S R G P
Q V P T E A G Q Q V A V G G A E V Q
S S R H R P E K S S L S V V P K S R

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GCT GGA CCG GTG TCT CGG CTC CTT GCT GGA CAG CGA CAC CAC CGG CTT CGA CCT

A G P V S R L L A G Q R H H R L R P
L D R C L G S L L D S D T T G F D L
W T G V S A P C W T A T P P A S T W

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L D A V D V V V R R V A T D L M H A
S T Q * T S L S E A S P L T S C T R

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38079 38088 38097 38106 38115 38124
GGA GGT CTG CTA CGT CGA CAA CGA CTC GGC GGA CGG CAG TGT CGA GCA TGT GCG

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E V C Y V D N D S A D G S V E H V R
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S R A R P S S * G C R G C D P S R R
R G P G R H R D D A V V A I Q A E G
A V Q G A T V I M R L S R L R P K A

GCG CTG GAC CGG GCG CCA CTG CTA GTA GGC GTT GCT GGC GTT AGA CCC GAA GCG
38133 38142 38151 38160 38169 38178
CGC GAC CTG GCC CGC GGT GAC GAT CAT CCG CAA CGA CCG CAA TCT GGG CTT CGC

R D L A R G D D H P Q R P Q S G L R
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R P G P R * R S S A T T A I W A S P

P S C R R C G G R G P T R R P S R T
P R V V D A D A A G Q L G A R V V H
P A F L T P M R R A R S D P A S * T
GCC CCG CTT GTT GCA GCC GTA GGC GGC GGA CCT CAG GCC GCG CCT GAT GCA

G	A	P	S	G	F	P	R	A	G	R	V	S	S	C	A	*	T
GGG	CCG	CCC	CGA	CGG	CTT	CCC	CGC	CCG	GGG	TGC	CTG	CGA	CCT	CGT	GCG	GAT	ACA
	38457			38466			38475			38484			38493				38502
CCC	GGC	GGG	GCT	GCC	GAA	GGG	GCG	GGC	CCC	ACG	GAC	GCT	GGA	GCA	CGC	CTA	TGT
P	G	G	A	A	E	G	A	G	P	T	D	A	G	A	R	L	C
P	A	G	L	P	K	G	R	A	P	R	T	L	E	H	A	Y	V
R	R	G	C	R	R	G	G	P	H	G	R	W	S	T	P	M	C
P	N	P	A	R	R	G	S	R	S	A	A	R	S	R	A	A	R
L	T	R	R	E	E	G	P	G	R	H	Q	A	L	D	P	Q	E
C	P	E	A	S	K	A	R	V	A	I	S	R	S	I	P	S	S
CGT	CCC	AAG	CCG	CGA	GAA	GCG	GGC	CTG	GCG	CTA	CGA	CGC	GCT	CTA	GCC	CGA	CGA
	38511			38520			38529			38538			38547				38556
GCA	GGG	TTC	GGC	GCT	CTT	CGC	CCG	GAC	CGC	GAT	GCT	GCG	CGA	GAT	CGG	GCT	GCT
A	G	F	G	A	L	R	P	D	R	D	A	A	R	D	R	A	A
Q	G	S	A	L	F	A	R	T	A	M	L	R	E	I	G	L	L
R	V	R	R	S	S	P	G	P	R	C	C	A	R	S	G	C	S
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V	L	H	Q	V	G	V	V	L	L	G	V	Q	A	A	P	G	A
S	S	T	S	C	V	*	*	S	S	V	S	R	H	R	R	A	R
GCT	GCT	CCA	CGA	CGT	GTG	GAT	GAT	GCT	CCT	CTG	GCT	GGA	CAC	GGC	GGC	CCG	GGC
	38565			38574			38583			38592			38601				38610
CGA	CGA	GGT	GCT	GCA	CAC	CTA	CTA	CGA	GGA	GAC	CGA	CCT	GTG	CCG	CCG	GGC	CCG
R	R	G	A	A	H	L	L	R	G	D	R	P	V	P	P	G	P
D	E	V	L	H	T	Y	Y	E	E	T	D	L	C	R	R	A	R
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Q	A	P	Q	R	T	A	R	C	R	S	R	P	M	W	C	R	P
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	38619			38628			38637			38646			38655				38664
CTG	GGC	GGG	CTG	GCG	GGT	GGC	CCT	GCA	CCT	GGA	CCT	GGG	CAT	CCA	GCA	CCG	GGG
L	G	G	L	A	G	G	P	A	P	G	P	G	H	P	A	P	G
W	A	G	W	R	V	A	L	H	L	D	L	G	I	Q	H	R	G
G	R	A	G	G	W	P	C	T	W	T	W	A	S	S	T	G	A
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A	A	P	R	G	H	G	A	R	V	A	P	D	V	H	P	A	V
P	P	P	A	V	T	A	L	V	Y	L	R	T	W	M	R	R	L
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	38673			38682			38691			38700			38709				38718
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G	G	G	A	T	V	A	S	T	Y	S	R	V	H	M	R	R	N
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GT4

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V G P A S R R A P P R A P P S R A T
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G P R A A A P C R R * * S A G S * W					
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 A A P A Q H Q G P G G P L R L V E V

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 R L Q N G V P I E V E L V L R D V Q

 L Q A A I A R C R Q F H A S E V L E
 C S R P S R G A G S S I R V R S W S

A A A R R D G P V A P F A C E R G A

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 AGC AGC TGC GCG GCG ATC GCC CGG CAC GCG TGG AAA TGC GCA CTC TCG ACC AGC

 S S C A A I A R H R W K C A L S T S
 A A A R R S P G T A G N A H S R P A
 Q L R G D R P A P L E M R T L D Q L

 P V F K E P R V I Q P L R A P R D S
 P S S N R R A C S R R Y G P R G T P
 R P R I E G P A R D A T A P G A Q R

 AGC CCC TGC TTA AAG AGG CCC GCG TGC TAG ACG CCA TCG GCC CGG CCG GAC AGC
 40563 40572 40581 40590 40599 40608
 TCG GGG ACG AAT TTC TCC GGG CGC ACG ATC TGC GGT AGC CGG GCC GGC CTG TCG

 S G T N F S G R T I C G S R A G L S
 R G R I S P G A R S A V A G P A C R
 G D E F L R A H D L R * P G R P V G

 D Q R G A I D F Y D G T T F D A H E
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 F G P P R R H R L L R G Y H L R R A

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 E S W R P A M S K * S P V V K S A C
 N P G G R R C R S S R P * * S R R A
 I L A A G D V E V V A R S E V G V L

 S F L R D Y V G R L W E L E T D D V
 P S C A I T S V A C G S W S R T T W
 R L V P S R L C R A A V G A G H R G

 AGC CTC TTG TCC GCT AGC ATC TGT GGC GCG TCG GTG AGG TCG AGG CAC AGC AGG
 40671 40680 40689 40698 40707 40716
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 S E N R R S * T P R S H S S S V S S
 R R T G D R R H R A A T P A P C R P
 G E Q A I V D T A Q P L Q L R V V H

 L R P L S A F G D A Q F A A R H E E
 S G R C R H S D T P R S P Q A T S R
 R A A A A I R I R R G P L S R P A G

 TGC TCG GCG CCG TCG CTA CGC TTA GGC AGC CGG ACC TTC CGA CGC GCC ACG AGG
 40725 40734 40743 40752 40761 40770
 ACG AGC CGC GGC AGC GAT GCG AAT CCG TCG GCC TGG AAG GCT GCG CGG TGC TCC

 T S R G S D A N P S A W K A A R C S
 R A A A A M R I R R P G R L R G A P
 E P R Q R C E S V G L E G C A V L L

02

D I V T E V A G M R R S R E D P ^(M) Q
 T S * L K W P G W V A A G K T L C K
 R R D C N G R G G Y P P E K R * A N

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 V D H S F H G P H T A A P F V R H L

 P S R Y T G G R F I A D A K A P S Y
 L H V I R E E G S Y P M P K L R L I
 S T F S V N R G P I H C R S * G S F

 ACT CCA CTT GCT ATG CAA GGA GGG GCC TTA TAC CGT AGC CGA AAT CGG CCT CTT
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 TGA GGT GAA CGA TAC GTT CCT CCC CGG AAT ATG GCA TCG GCT TTA GCC GGA GAA

 * G E R Y V P P R N M A S A L A G E
 E V N D T F L P G I W H R L * P E N
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 H I S * V R A P L P S D M A T P R R
 T F Q S S E Q R Y R H I W P R R A A
 L S N V L S K G T A T F G H G D P P

 ATC ACT TAA CTG ATC TGA GAA CGG CCA TCG CCA CTT AGG TAC CGG CAG CCC GCC
 40887 40896 40905 40914 40923 40932
 TAG TGA ATT GAC TAG ACT CTT GCC GGT AGC GGT GAA TCC ATG GCC GTC GGG CGG

 * * I D * T L A G S G E S M A V G R
 S E L T R L L P V A V N P W P S G G
 V N * L D S C R * R * I H G R R A A

 E W Q H A H L V R P A V Y T F Y P L
 S G N I R T Y Y E R R S T H L I R S
 A G M S A R T I S E A R R I Y F V P

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 40941 40950 40959 40968 40977 40986
 CGC TCC CAT TGA TGC GCG TGT AAT ACT CTC GGC GCG ACG TAT GTA AAA TAC GGG

 R S H * C A C N T L G A T Y V K Y G
 A P I D A R V I L S A R R M * N T G
 L P L M R V * Y S R R D V C K I R E

 P N S H S S V T R N R Q I D S A D D
 R T A I V P C L A I A N S T P P T M
 A P Q * S Q V C H S Q T P H R L R *

 TCG CCC AAC GAT ACT GAC CTG TGT CAC GCT AAC GCA ACC TAC AGC CTC CGC AGT
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S G L L * L D T V R L R W M S E A S
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 R V A (M) T G H S A I A L D V G G V I
 V V V L R E F Q S P K L P G E V K R
 * * S S G K S S A Q S * P V K S R A
 R S R R A K R V P K A E P S R R G Q

P/

AGA TGA TGC TGC TCG GAA AGC TTG ACC GAA CCG AAG TCC CCT GGA AGC TGG AAC
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 TCT ACT ACG ACG AGC CTT TCG AAC TGG CTT GGC TTC AGG GGA CCT TCG ACC TTG

S T T T S L S N W L G F R G P S T L
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 Y Y D E P F E L A W L Q G T F D L A

D G S I R T N G E A I E D L V G L T
 T V A S G L T V R R S K M S S V S R
 P * R Q D S H * G G R N * R P C R A

GCC AGT GGC GAC TAG GCT CAC AAT GGG AGG CGC TAA AGT AGC TCC TGT GGC TCG
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 CGG TCA CCG CTG ATC CGA GTG TTA CCC TCC GCG ATT TCA TCG AGG ACA CCG AGC

R S P L I R V L P S A I S S R T P S
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 V T A D P S V T L R D F I E D T E R

E I Q V P F R R R L S R A N E R R C
 K * R S P F V G A S R G P M R E E A
 N R D P R S F A P P A V P C E R K P

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 F L S G R E N A G G A T G H S L F G
 F Y L D G K T P A E R P G I L S S A

R G V L A P D P N S P G P P F Q G L
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L N R T R N R R D R G E G A F H R R
 S I G P E I A A T V A R A R S I G V
 P S E Q N S Q P P * P G R G R F A S

TCC TCT AAG GAC CAA GCT AAC GCC GCC AGT GCC GGG AGC GGG CGC TTT ACG GCT

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 G I G P Q Q A D G Q G P E A P G G A
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 A R D G A A P C R G P G A R G A G R

 TCG GGC TAG GGG CCG ACC CGT AGC GGG ACC GGG CCG AGC CGG CCG GGG GGC
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 S P I P G C W A S P W P G S A G P P
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 P D P R L L G I A L A R L G R P P G

 L Q Q H H A V A D V V V H C G G T G
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 E L L V V G N R V D H D V A P A R S

 Q A A R R H E Y Q R L V A V A P W R
 R P Q G A T N T S G S S P * R L G G

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CCC TGG GCT GCC CGG CGG TGT TCG TAC TGC CGG AGG ACG GCT ACC GCA GGC CAC

P W A A R R C S Y C R R T A T A G H
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L G C P A V F V L P E D G Y R R P P

A D M R V E G P G V A G Q A R D T G
P T W G S R V R A * R A R R A T R V
P R G D P G * G P R G R G A R P G Y

GCC CGC AGG TAG GCC TGG AGT GGG CCC GGA TGG CGC GGG ACG CGC GCC AGG CAT
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G V H P D L T R A Y R A L R A V R T

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R A S G G R R A A G R L P R R P G R
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R G Q R A E T R Q S W P P G A A R P
D G R A R R P A S H G R R V Q Q G P
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41697 41706 41715 41724 41733 41742
CGT CGC CCC TGG CGC GCC TCG GTG CGC TGT GAC CAC GGC GGA CCT GCT GCC CGG

R R P W R A S V R C D H G G P A A R
V A P G A P R C A (V) T T A D L L P G Q3
S P L A R L G A L * P R R T C C P G

G Y P P S R P S P N * R I G A S P W
V T R R H D P R R T E D S G P Q R G
S R V A T I P A V P K M P D R S V A

CCT GGC ATG CCG CCA CTA GCC CCG CTG CCC AAA GTA GCC TAG GGC CGA CTG CCG
41751 41760 41769 41778 41787 41796
GGA CCG TAC GGC GGT GAT CGG GGC GAC GGG TTT CAT CGG ATC CCG GCT GAC GGC

G P Y G G D R G D G F H R I P A D G
D R T A V I G A T G F I G S R L T A
T V R R * S G R R V S S D P G * R P

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      L S V A S P G R A G A A K L R A N G
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GTC CGA GTG GCG ACT GCC GGG CGC GCG CGG CCG GCG GAA GTT GGC CCG CAA GGG
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CAG GCT CAC CGC TGA CGG CCC GCG CGC GCC GGC CGC CTT CAA CCG GGC GTT CCC
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      Q A H R * R P A R A G R L Q P G V P
      R L T A D G P R A P A A F N R A F P
      G S P L T A R A R R P P S T G R S R
      ---
      P P R R G P R G P V P P P R C R R S
      R H D A A P G G R S Q R L G V D D V
      G T T P P R A A G P S A S A S M T *
      ---
CGG CCA CCA GCC GCC GGC CCG GCG GGG CCC TGA CCG CCT CCG GCT GTA GCA GAT
      41859          41868          41877          41886          41895          41904
GCC GGT GGT CGG CGG CCG GGC CGC CCC GGG ACT GGC GGA GGC CGA CAT CGT CTA
      ---
      A G G R R P G R P G T G G G R H R L
      P V V G G R A A P G L A E A D I V Y
      R W S A A G P P R D W R R P T S S T
      ---
      G P R R G * D P G R R V D A R G P R
      E Q G G A E T R D E G F T P G V Q D
      K R A A P R L G T R A S R R G S R T
      ---
GAA GGA CCG GCG GCC GGA GTC AGG CCA GGA GCG GCT TGC AGC CGG GCT GGA CCA
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CTT CCT GGC CGC CGG CCT CAG TCC GGT CCT CGC CGA ACG TCG GCC CGA CCT GGT
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      L P G R R P Q S G P R R T S A R P G
      F L A A G L S P V L A E R R P D L V
      S W P P A S V R S S P N V G P T W S
      ---
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      L G F A S Q Q D L H Q L R Q G S R S
      S A S R R S S T S T S S A S D L A P
      ---
GCT CCG GCT TGC GGC TGA CGA CCA GCT CCA CGA CCT CCG CGA CAG GTC TCG CCC
      41967          41976          41985          41994          42003          42012
CGA GGC CGA ACG CCG ACT GCT GGT CGA GGT GCT GGA GGC GCT GTC CAG AGC GGG
      ---
      R G R T P T A G R G A G G A V Q S G
      E A E R R L L V E V L E A L S R A G
      R P N A D C W S R C W R R C P E R D
      ---
      G G P T R V P W S P R P P R R A R P
      V A R H E Y Q G A R A P R D V R G L
      C R G T N T S A L E P P A T * A G S
      ---
TGT GGC GGG CCA CAA GCA TGA CCG GTC GAG CCC GCC CCG CCA GAT GCG CGG GCT
      42021          42030          42039          42048          42057          42066
ACA CCG CCC GGT GTT CGT ACT GGC CAG CTC GGG CGG GGC GGT CTA CGC GCC CGA
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T P P G V R T G Q L G R G G L R A R
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R V A T G P S W G S G A R S R R R A
D F R R V P L G A R G P G V G D V P
T S G G Y R S V L G V R G S E T * P

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V G L E A E F A L Q A P V R I G D T
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H A K L R L E R E L C R H S D A V R
T P S S A S N A S C A G T R M P S V

R P R A T S C H R R D R G A R G A R
G H D R P Q A I D V T G A L A G Q A
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C R G R A V E Q C L R S R P A R P A
A V V A R L S N V Y G P G Q R A L R
P W S R G * A M S T V P A S A P C A

T R H A A A S A S P P R G P R A R A
P E T H Q R V P Q R R G G P A L G H
P N P T S G C Q S V A A A R P S G T

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R V R C A A A L A D G G R P G R A R
G F G V L P H W L T A A A R G E P V
G S V C C R T G * R R P P G A S P C

P T R R D A H P G P S H G R R R R *
P H E A I R M H D P V I D V D V V D
R T N P S G C T T R S * T W T S S T

CGC CCA CAA GCC GCT AGG CGT ACA CCA GGC CCT GAT ACA GGT GCA GCT GCT GCA

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42291 42300 42309 42318 42327 42336
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 G P E Q E R Q A A P D A A A P Q G G
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 GTG GGC CAA GGA CGA GCG CGA CGC GCC GGC CCA GCC GCC GCC GGC CGA CGG GCG
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 P G S C S R C A A G S A A A G C P P

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 H H V D A R A H G S R Q A A Q Q L D
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 V V N V G S G V P T S L S G L L E I
 W * T S A R A C P L R * A A C W R S

 T R H S R R S R R P A S P A P V T R
 H G T H G A A G D R H A P L P S P G
 T D P T V P P E T A T R Q S R P R D

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 V S G V T G G S V A V R W E R G R S
 C P V * P A A P S R C A G S G D G P

 R G A P C S A P H R V P G R R V R S
 E V P L A V P Q I D C P G A G F E V
 K S R C P L Q S S T A R A R A S S S

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 F D R Q G N W L D V A R A R A E L D
 S T G R A T G W M S H G P A P N S T

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 P P G G D G Q G L T D P L A P L T H

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Q R A A M G R V S P T R C H Q S R T
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 W R A A I P L T E G V R Q C W E R V
 G G P P S P * P R V S G S A G S V C
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 E V V G A P G R G G R R A L R D S A
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 L H D A G R A P S A S T R * T V R R
 S T T P A G P L P P R R A R R S D A
 * V T L R T L R M R P R L S A P S W
 N S P * V R * V C G R V S R H R A G
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 L D G Q T R Q T H P R T E R C R A P
 G R V W R T T F G P M L A T I L A Q
 G E Y G G L P S A R C * R Q S * P R
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 T L V P T E W * S P A S T L * S G P
 P S Y P P S G E A R H Q R C D Q G L
 V P R N G A D P Q D G P L S G H R P
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 P G A S E W R R A P * W T S V R P P
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 G P A D S Q R R A G H Q V E T R G G
 D R P I P S V G L V T R * R P V A G

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R L P R P R G D Q R S G R Q G T R R
D Y L D H A D M K G P A E S V P A A
T T S T T P T W R A P L R A S R H P
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GGT CGT AGA GGT CGT GGG CGT CCA TCT TGC CGG GAG CCT CGC TGA CCG GTG CGG
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G R R G R G R P S C R E P R * P V R
V V E V V G V H L A G S L A D R C G
S * R S W A S I L P G A S L T G A A
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P M G A A A M L R A N E A A A L L Q
P C G P R R W * V P T R P R R S C S
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G I P A A A I K R A F S A A A S N W
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A S P T T R R C P T P R P T R R S P
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R D E H T G T V A D H I D A L G A V
A T R T R A P S P T T S T P W D R S
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L E A F A V A G D V Q E Y E A T A R
W N P S P W R A T S R S T S P R P A
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E P T M A D A L E F Y A A K G A Q Q
S R P * R T P W S S T P P R A P R N

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Q Y V G S V L T F L R Q Y A N R Y L
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L V H A G H Q G E Q P L V G V A V E
W Y T P D T R V N S R W * A L R * S

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S E Y F A G A E E E T V D K N V T A
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D S * N A P A S S S V T S L F T V A

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L V S T A A L M G S Y L A L H V G T
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V A A P R P L L R R R R P L L R P
S L L P D L F C A A D G A L Y Y G P
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G Q Q R V E E A G G V A G E V V A G
D S S G S R K Q A A S P A R * * P G

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D Q H C V F G V S Y R D G R L P I V
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 E H P R R N K L H K S I V G A R G S
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 S H S A P A A R S P S N S T R L T V

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D A L G D V G A L L D R V L Q E H V
T P S V T S A P C L T A F F R S T W
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V E V V A V D L P G A D V G T E D L
S K S S R S T C Q E R T S G P K I F
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P W D I A W D E K G W R L L V G N K
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T V * P R E S T S S S A P T R S M M
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R E L L K V S M G A K S L L S A A T
G N W Y S * P C A P R A S C P P R R

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P F Q * L H G H A G L A E Q G G R R
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I G G A W R R D R A S K Q V H L E G
S G A P G G G I V L V K K S M S S G
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S I I * T E R R P A N R I S I F M R
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C P Y N H F V E G L T T A V S * H F
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R * D K K M R S * T A D A E P N T G
D R T R R * A R S H L M R K P I L A
I E L G E E H A V I Y C G S R S * H

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D D D V F L R A A N T P T L H A A Y
V L E G P L A P P L G S V C T P V N
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D Q L A G E G R W Q P A D A G R H V
G T R N G T V F R G S S V S S * P Q
G P A T E R S S A A R P S R P S R S
E R H P K G H R L P G L L G L V V A
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F P (V) R F P V T K R P E E T E D Y G X13
S R C G F P * R S G P R R P R T T A
P G A V S R D E A A R G D R G L R L
C M S A L K R A S S A S A S R S Q D
A C R R W S G P R P R P R R G P S T
P V D V G A E Q G L V R V G V P V P
ACC GTG TAG CTG CGG TCG AAG GAC CGG CTC CTG CGC CTG CGG CTG GCC CTG ACC
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G T S T P A S W P R T R T P T G T G
A H R R Q L P G R G R G R R P G L V
P S S S T I G G S * S L I K R * L T
R H A P R S G A P S R C S R G S C R
G T L Q V H D R R V V V L D E A V V
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TCC GGT GAG CTG GAC GTG ATC CCG CCG GAC TAC GAC AAG ATC TTC CGC TAC AAC
S G E L D V I P P D Y D K I F R Y N
P V S W T * S R R T T T R S S A T T
R * A G R D P A G L R Q D L P L Q R

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 CAC ACC AGG GCG CCG GCC CGC GAC GAC GAG GAC GAG GAC AAG AGC CTG TGG CCG
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 L L V R G R Q D A G A G V Q V H R R

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 S S G Y P A S P V * R S A P S T P R
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 Q Q L R I A R L A G V Q L G P L H S

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10034346 02502

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G R T * S G W C S A E W P P R S W A

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205220 948307 10084846

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D G L A A D F E S E P A A M N R L L					
T G W P P T S R A N P L P * T G C C					
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R G L A A L G V L R E S K P G V F A					
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L T P V G E L R R A D R S P S F H S					
* H R S G N C V A P T A R R P S T H					
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V A D A G A A R G E V V D E A P V E					

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CCA	CAG	CGT	CCG	CAC	CGG	CGG	CCC	GGC	CTT	CGA	CCA	CGT	CTT	CGG	CCG	GGA	CTT
P	Q	R	P	H	R	R	P	G	L	R	P	R	L	R	P	G	L
H	S	V	R	T	G	G	P	A	F	D	H	V	F	G	R	D	F
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E	R	V	Q	R	V	V	G	V	Q	R	P	E	V	V	R	R	H
K	A	Y	R	A	S	S	G	S	R	D	H	S	*	L	A	A	I
GAA	GCG	CAT	GGA	CCG	CCT	GCT	GGG	GCT	GGA	CAG	CAC	CGA	GAT	GTT	GCG	CCG	CTA
	45693			45702			45711			45720			45729			45738	
CTT	CGC	GTA	CCT	GGC	GGA	CGA	CCC	CGA	CCT	GTC	GTG	GCT	CTA	CAA	CGC	GGC	GAT
L	R	V	P	G	G	R	P	R	P	V	V	A	L	Q	R	G	D
F	A	Y	L	A	D	D	P	D	L	S	W	L	Y	N	A	A	M
S	R	T	W	R	T	T	P	T	C	R	G	S	T	T	R	R	*
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A	L	A	G	T	P	D	G	A	Q	D	R	R	V	L	V	E	G
L	W	P	V	P	P	I	A	P	R	T	A	A	C	W	S	K	E
CTC	GGT	CCC	GTG	GCC	ACC	CTA	GCG	GCC	GGA	CCA	GCG	CCG	CGT	GGT	CCT	GAA	GAG
	45747			45756			45765			45774			45783			45792	
GAG	CCA	GGG	CAC	CGG	TGG	GAT	CGC	CGG	CCT	GGT	CGC	GGC	GCA	CCA	GGA	CTT	CTC
E	P	G	H	R	W	D	R	R	P	G	R	G	A	P	G	L	L
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A	D	A	G	H	H	V	D	P	A	P	V	P	R	Q	Q	G	R
P	T	R	V	T	T	S	T	P	P	P	S	P	V	S	S	A	A
GCC	GCA	GGC	GTG	GCA	CCA	CCT	GCA	GCC	CCC	GCC	CCT	GCC	CTG	CGA	CGA	CCG	GCG
	45801			45810			45819			45828			45837			45846	
CGG	CGT	CCG	CAC	CGT	GGT	GGA	CGT	CGG	GGG	CGG	GGA	CGG	GAC	GCT	GCT	GGC	CGC
R	R	P	H	R	G	G	R	R	G	R	G	R	D	A	A	G	R
G	V	R	T	V	V	D	V	G	G	G	D	G	T	L	L	A	A
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T	S	R	A	C	G	E	S	R	P	T	S	Y	S	E	A	A	P
CCA	CGA	CGC	GCG	CGT	GGG	GAG	CGA	CGC	GCC	GCA	CGA	CAT	GCT	GAG	CCG	CCG	GCC
	45855			45864			45873			45882			45891			45900	
GGT	GCT	GCG	CGC	GCA	CCC	CTC	GCT	GCG	CGG	CGT	GCT	GTA	CGA	CTC	GGC	GGC	CGG
G	A	A	R	A	P	L	A	A	R	R	A	V	R	L	G	G	R
V	L	R	A	H	P	S	L	R	G	V	L	Y	D	S	A	A	G
C	C	A	R	T	P	R	C	A	A	C	C	T	T	R	R	P	G

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G R A G R G G A G G G G R R G P R G
V A Q A G E V L A A A G V A D R A V
S R R P G R C W R R R A S R T A R W
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P R R S R R R R V R P R H G R G A *
L G A V E E G G Y G L A T V E V Q E
S A P S K K A A T G S P P S R * R S
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E A G D F F A A V P E G G D L Y L L
R P A T S S P P Y P R A V T S T C S
---
S R R G H S P P R A P R S S E P A S
L A D D M A P L V L P G R P N Q R V
L L T T W P Q S S S R A A L I R A C
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GTT CTC GCA GCA GGT ACC GAC CCT CCT GCT CGC CCG GCG CTC CTA AGA CCG CGT
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CAA GAG CGT CGT CCA TGG CTG GGA GGA CGA GCG GGC CGC GAG GAT TCT GGC GCA
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Q E R R P W L G G R A G R E D S G A
K S V V H G W E D E R A A R I L A H
R A S S M A G R T S G P R G F W R T
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A A P C Q R R V A P D D H D L V Q Q
Q R R A S G A C P R I T M T S C R S
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GAC GGC GGC CCG TGA CGG CCG CGT GCC GGC CTA GCA GTA CCA GCT CGT GGA CGA
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CTG CCG CCG GGC ACT GCC GGC GCA CGG CCG GAT CGT CAT GGT CGA GCA CCT GCT
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C R R A L P A H G R I V M V E H L L
A A G H C R R T A G S S W S S T C C
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G V R H G R V G H R R G V E V V E V
G S V T G A S A T G V V * R L S R L
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GCC CGA CAC GGT GCC CGC GGA CGC CGT GCC GAC GAC CTA CCT CAA CGA CCT CAA

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 L L V N G N G L E R T R G D F E Q L
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 K R S N * R A R S G * Q P I P G F P
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 D D W G A L S A L S N V I S S A R V

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10034545 02502

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* P Q S I I R D L R A S M V P I V P
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N V A P L H N Q R P S R E N R S D S

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 H P D I R V V S G D L L D Q T S L I
 T R T S E W * A A T C W T R R A * S
 P G H P S G E R R L A G P D E P D R
 A T S C D Q G V S I * L R P A R D N
 Q Q R A T R G W R S R C G R R G T T
 S S D L L G A G G L D V V E A G Q R
 CGA CGA CAG CTC GTC AGG ACG GGG TGG CTC TAG ATG TTG GAG CCG CGG GAC AGC
 46719 46728 46737 46746 46755 46764
 GCT GCT GTC GAG CAG TCC TGC CCC ACC GAG ATC TAC AAC CTC GGC GCC CTG TCG
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 L L S S S P A P P R S T T S A P C R
 C C R A V L P H R D L Q P R R P V V
 T G T E Q F C G V T A A S T V P L P
 R G P R R S A A W R Q R P P S R C P
 E D R D G P L L G G N G R L H G A L
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 F V P V S W K Q P T V A A E V T G K
 S S R S P G S S P P L P R R * P A R
 R P G L L E A A H R C R G G D R Q G
 T S R I S S A M R M V A P S L L E R
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 T H Q P H Q L G D A D R R P E A T G
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 V C C G C W R P S A S R R G S A V P
 C A A D A G G H P H H G G A Q Q F P
 V V L L P T G R K * * A E V E S I N
 S W W C R R G A S R D P R W R P S T
 P G G A A A D R A E I L G G G R L H
 GCC TGG TGG TCG TCG CCG CAG GGC GCG AAG ATA GTC CGG AGG TGG AGC CTC TAC
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 D H Q Q R R P A L L S G L H L G D V

P F T R S D G C L S A V G K W G R L
R F P A P T G A S R P W A R G G A C
E S L H P L G R L A L G R G E V R A

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S E R C G S P R R A R P R P S T R A
R K G A G V P A E R G H A L P P A Q

G * P T A L A N P C * M T C F * R S
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A G V P H G L R E P V V H H L V V A

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A P T G W P R R S G T T W C R T T A
P L R G G Q G V R A L H G A E L P R

D Y P I N A T L P I R N L W S D G I
T T R S T R P * R S G T * G R T V S
L R V P H E R D A P D Q E V V L * R

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S R T G C S R S A G S C S T T S H R
V V R D V R G Q R D P V Q P R V T D

R P G S N T V R L T D S P T A A T F
G P G P T R * A C P T A R P P R R S
D P A R L E D R A L H R E P H G G H

TAG GCC CCG GGC CTC AAG CAG TGC GCG TTC CAC AGC GAG CCC CAC CGG CGG CAC
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I R G P E F V T R K V S L G V A A V
S G A R S S S R A R C R S G W P P *
P G P G V R H A Q G V A R G G R R E

S P R I S L S R S P L R S A S R S Q
A P G S P C A G A P C G P P P V R S
L Q A Q H V L E P Q A V Q L R F A V

TTC GAC CCG GAC TAC CTG TTC GAG GCC GAC CCG TTG GAC CTC CGC CTT GCG CTG
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K L G L M D K L R L G N L E A E R D
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A G P D G Q A P A G Q P G G G T R L
P K A P S * T R P M V I I S A W S S
P S R L P S R A R C S S S A R G P R
P A E C P V V H A A H R H H E G L V

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G A S Q G T T C A A * R * C S P R T
G L R R G L R A R H D D D A R P G R
G S S R T R P V P I V W R T R S R T
A P P G R G R C R S * G G P A R D P
L R L V E D E A G P D G V P H A I Q

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A G G P R P R H R D H P P G A R S G
S K A K A C T P S S Q R S W T S T S
P N R R R A R R A P S A R G R P P P
H I E G E R V D P Q V P A V V H L H

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G F R L R A R R A G L A R P R G G G
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S G A A A G P P P V A R R R G S G
V G P Q Q A R R L H F Q E A G V Q A

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D S R L L R P A E V E L L C A D L S
T P G C C A R R R W N C S A P T * A
L P A A A P G G G T A L R R P E P
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A S P L L E A P L G L D R E L F Q D

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M I T S L S R R R S V S L S S A A P
W S P R C R G A G A * R C H P R R R
G H H D V A V Q A Q E G V T L V G G

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H D G R Q R P A P A H R Q * G R R R

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A L G N E F L G T Q P S G G P L G P

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A R P F S N R P V C G E P P G R P G
R G R S R T G R S V (V) S L P A G Q V S

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R R H P T * R S T R G T S R R R A T

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P H R P R R Q G L Q P S P P E V G V
R T V R A G S V S S R R H R N S A S

G	P	S	A	P	A	A	S	R	A	A	A	I	A	T	R	R	R
CGG	CCC	ACT	GCG	CCC	GCG	GCG	ACT	GGC	TCG	ACG	CCG	CTA	CCG	CCA	AGC	TGC	GGC
	47691			47700			47709			47718		47727			47736		
GCC	GGG	TGA	CGC	GGG	CGC	CGC	TGA	CCG	AGC	TGC	GGC	GAT	GGC	GGT	TCG	ACG	CCG
A	G	*	R	G	R	R	*	P	S	C	G	D	G	G	S	T	P
P	G	D	A	G	A	A	D	R	A	A	A	M	A	V	R	R	R
R	V	T	R	A	P	L	T	E	L	R	R	W	R	F	D	A	D
R	S	V	E	R	V	L	G	S	G	E	E	G	D	L	A	Q	P
V	P	F	R	A	C	S	D	P	A	K	K	A	T	S	P	R	R
C	P	F	G	R	A	R	T	R	L	R	R	R	R	R	P	G	A
TGT	GCC	CTT	TGG	AGC	GCG	TGC	TCA	GGC	CTC	GGA	AGA	AGC	GGC	AGC	TCC	CGG	ACG
	47745			47754			47763			47772		47781			47790		
ACA	CGG	GAA	ACC	TCG	CGC	ACG	AGT	CCG	GAG	CCT	TCT	TCG	CCG	TCG	AGG	GCC	TGC
T	R	E	T	S	R	T	S	P	E	P	S	S	P	S	R	A	C
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P	A	C	W	N	R	A	P	G	R	T	S	G	A	W	*	*	G
CCC	ACG	CGT	GGT	CAA	TGC	CCG	GCC	AGG	GGC	TCA	CCT	CGG	TCG	GGT	AGT	AGT	TGG
	47799			47808			47817			47826		47835			47844		
GGG	TGC	GCA	CCA	GTT	ACG	GGC	CGG	TCC	CCG	AGT	GGA	GCC	AGC	CCA	TCA	TCA	ACC
G	C	A	P	V	T	G	R	S	P	S	G	A	S	P	S	S	T
G	A	H	Q	L	R	A	G	P	R	V	E	P	A	H	H	Q	P
V	R	T	S	Y	G	P	V	P	E	W	S	Q	P	I	I	N	Q
R	L	D	A	D	E	A	H	Q	D	L	L	D	V	A	N	R	V
G	S	I	P	M	R	P	M	S	T	L	S	T	S	P	T	G	C
A	P	S	R	C	G	R	C	A	P	*	P	P	R	R	R	E	A
TCG	GCC	TCT	AGC	CGT	AGG	AGC	CGT	ACG	ACC	AGT	TCC	TCC	AGC	TGC	CGC	AAG	GCG
	47853			47862			47871			47880		47889			47898		
AGC	CGG	AGA	TCG	GCA	TCC	TCG	GCA	TGC	TGG	TCA	AGG	AGG	TCG	ACG	GCG	TTC	CGC
S	R	R	S	A	S	S	A	C	W	S	R	R	S	T	A	F	R
A	G	D	R	H	P	R	H	A	G	Q	G	G	R	R	R	S	A
P	E	I	G	I	L	G	M	L	V	K	E	V	D	G	V	P	H
A	E	H	L	G	L	D	L	G	A	V	V	V	A	D	L	Q	R
Q	R	T	C	A	L	I	S	G	P	L	W	L	R	M	W	S	D
S	G	R	A	P	W	S	R	A	R	C	G	C	G	C	G	A	T
TGA	CGG	AGC	ACG	TCC	GGT	TCT	AGC	TCG	GGC	CGT	TGG	TGT	TGG	CGT	AGG	TCG	ACA
	47907			47916			47925			47934		47943			47952		
ACT	GCC	TCG	TGC	AGG	CCA	AGA	TCG	AGC	CCG	GCA	ACC	ACA	ACC	GCA	TCC	AGC	TGT
T	A	S	C	R	P	R	S	S	P	A	T	T	T	A	S	S	C
L	P	R	A	G	Q	D	R	A	R	Q	P	Q	P	H	P	A	V
C	L	V	Q	A	K	I	E	P	G	N	H	N	R	I	Q	L	S

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R G D L G G A A V V G A D V L A A A
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A S R G P W G C C S C G C G G P G C
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CGC CGA CCG TCC AGG CCA CCC GCA GCA ACT ACA CCC GCA TCC ACC AGG GCC GCA
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A D R P G H P Q Q L H P H P P G P Q
P T V Q A T R S N Y T R I H Q G R S
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G T I Q L E E G L G A R A A G Q H V
V R * R S N K V L A P A P R V R T S
C G N D P T R * W P R R P G C G P P
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GCA CCC GTT ATC TGG AGT TCT TCA CCA AGG CCG GCG CGG GCC GCA CCC TGG TGG
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H P L S G V L H Q G R R G P H P G G
T R Y L E F F T K A G A G R T L V D
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D Q L G L L A R P K Q A L A V A V H
T R C D S C P A H N R R L R L R L M
R G A T R A P R T T E A C A C G C C
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TGC AGG ACG TCA GGC TCG TCC CGC GCA CCA AAG ACG CGT TCG CGT TGG CGT TGT
48069 48078 48087 48096 48105 48114
ACG TCC TGC AGT CCG AGC AGG GCG CGT GGT TTC TGC GCA AGC GCA ACC GCA ACA
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T S C S P S R A R G F C A S A T A T
R P A V R A G R V V S A Q A Q P Q H
V L Q S E Q G A W F L R K R N R N M
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D D L H S L V H G G G L A V V P Q R
T T W T A S S T G A A L P * W Q S G
P R G P P Q P R A R R W P S G S A A
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TGG TCG TCC AGG TGG CTG AGG ACG TGC CCG CCG CCA AGG GCT ACC ACT GGC TGC
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G R P G G * G R A R R Q G L P L A A
V V Q V A E D V P A A K G Y H W L P
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Q G F Q P P Q Q A D V A Q D V H V G
S V S S R R S S R M S P R T L M S V
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G S R A P R G G P P Y T G R R G A P
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CCC GGA CCG TGC TGG CCT GCC TCC CGG CGG ATA CGT TCC CCG CCT CCC GGC CGG
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A P R H R R P P V R A T T S P G P C
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TGC CGG TCG GTG ACG TCG GGG CGG CAC TCG TGC TGT CGT CGA CGG GCC AGG GCA
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C R S V T S G R H S C C R R R A R A
A G R * R R G G T R A V V D G P G H
P V G D V G A A L V L S S T G Q G T

G Q V V H P G H Q A P E G L G L A P
E R F S M P A T S R Q N V S A L L R
R G S R C P P R A A S T * R P W S G
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48339 48348 48357 48366 48375 48384
CCT CCC TGA ACG ACA TGG GGG CCG TGC TGC GCT GGT TCA CCG AGG CCA AGA GCC
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P P * T T W G P C C A G S P R P R A
L P E R H G G R A A L V H R G Q E P
S L N D M G A V L R W F T E A K S R

V L Q R C V P R G Q P V Q G P P A A
C W S V A C R V G R R S R G P H R P
A G V S P V G S A G A P G A R T A R
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48393 48402 48411 48420 48429 48438
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A P T D G T P D A P A G P A R V A R
H Q L T A H R T P L R D L P G W R G

S R L L D G V L V P P V E A D D P H
V G S C I V W S S P R C K L M M P T
C E P A S * G R P R A A S * C * R P
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GCA	CTC	CGG	AGC	AGA	TCA	CCC	ACG	AGG	ACG	GGC	GGC	ACT	TCA	GCA	TCA	TCG	GGG
A	L	R	S	R	S	P	T	R	T	G	G	T	S	A	S	S	G
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T	P	E	Q	I	T	H	E	D	G	R	H	F	S	I	I	G	V
G	G	L	D	T	V	A	L	H	G	F	P	V	L	R	Q	Q	E
V	A	W	T	P	S	R	S	T	A	S	H	S	W	G	S	S	N
S	R	G	P	R	H	G	R	P	P	R	I	P	G	A	A	A	T
ACT	GGC	GGG	TCC	AGC	CAC	TGG	CGC	TCC	ACC	GGC	TTA	CCC	TGG	TCG	GCG	ACG	ACA
48501				48510			48519			48528			48537			48546	
TGA	CCG	CCC	AGG	TCG	GTG	ACC	GCG	AGG	TGG	CCG	AAT	GGG	ACC	AGC	CGC	TGC	TGT
*	P	P	R	S	V	T	A	R	W	P	N	G	T	S	R	C	C
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R	L	P	A	S	D	D	R	E	H	D	L	D	D	F	P	D	R
G	C	P	R	P	T	T	A	N	T	I	L	T	M	S	P	T	A
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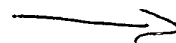
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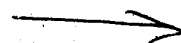
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 P A V S L L G R V A G R L A E A V T
 R R S A C S A G W P G G S P R R S P
 P C A G P P R P A T G T A R G G R S
 P V H E R R D H L Q G L Q A G V A V
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 R D M L P A V V E L S Q L R A H R D
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 V D V H A V D R V R H Q G G G A G T
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 Y V D V R D V S D A V L A A T R A R
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 E P A P R G W R V R R P R A P A T A
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 S S I C S S R * A A C P P R S G S F
 R R R W P R P R P R S S G P R G R A
 G G G G R A R G P V V P D L D V G P

G	A	A	A	V	P	A	A	P	S	S	Q	I	W	T	S	G	P
AGG	GCG	GCG	GCG	GTG	CCC	GCG	CCG	GCC	CCT	GCT	GAC	CTA	GGT	CCA	GCT	GGG	GCC
	50769			50778				50787			50796			50805			50814
TCC	CGC	CGC	CGC	CAC	GGG	CGC	GGC	CGG	GGA	CGA	CTG	GAT	CCA	GGT	CGA	CCC	CGG
S	R	R	R	H	G	R	G	R	G	R	L	D	P	G	R	P	R
P	A	A	A	T	G	A	A	G	D	D	W	I	Q	V	D	P	G
P	P	P	P	R	A	R	P	G	T	T	G	S	R	S	T	P	G
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G	G	A	F	E	E	A	P	G	G	D	A	R	Q	V	L	R	H
G	A	R	S	S	R	P	Q	V	A	T	R	E	S	C	S	D	T
CGG	GCG	GGC	GCT	TGA	GGA	GCC	GAC	CTG	GCG	GCA	GGC	GAG	CGA	CGT	GCT	CAG	CCA
	50823			50832				50841			50850			50859			50868
GCC	CGC	CCG	CGA	ACT	CCT	CGG	CTG	GAC	CGC	CGT	CCG	CTC	GCT	GCA	CGA	GTC	GGT
A	R	P	R	T	P	R	L	D	R	R	P	L	A	A	R	V	G
P	A	R	E	L	L	G	W	T	A	V	R	S	L	H	E	S	V
P	P	A	N	S	S	A	G	P	P	S	A	R	C	T	S	R	*
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G	P	Q	P	G	V	R	Q	A	P	L	C	D	G	L	V	R	L
V	P	S	H	A	S	V	S	R	L	C	A	I	G	W	C	A	S
CTG	GCC	CGA	CAC	CCG	GCT	GTG	CGA	CGC	GTC	CGT	CCG	TTA	GGG	GGT	CGT	GCG	CCT
	50877			50886				50895			50904			50913			50922
GAC	CGG	GCT	GTG	GGC	CGA	CAC	GCT	GCG	CAG	GCA	GGC	AAT	CCC	CCA	GCA	CGC	GGA
D	R	A	V	G	R	H	A	A	Q	A	G	N	P	P	A	R	G
T	G	L	W	A	D	T	L	R	R	Q	A	I	P	Q	H	A	E
P	G	C	G	P	T	R	C	A	G	R	Q	S	P	S	T	R	S
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R	P	R	G	L	G	Q	R	*	I	G	T	Q	R	A	A	R	G
G	R	G	D	*	A	R	D	D	S	E	R	R	G	R	R	G	G
CGG	CGC	CGG	CAG	GAT	CCG	GGA	CAG	CAG	TCT	AAG	GGC	AGA	CGG	CGC	GGC	GGG	CGG
	50931			50940				50949			50958			50967			50976
GCC	GCG	GCC	GTC	CTA	GGC	CCT	GTC	GTC	AGA	TTC	CCG	TCT	GCC	GCG	CCG	CCC	GCC
A	A	A	V	L	G	P	V	V	R	F	P	S	A	A	P	P	A
P	R	P	S	*	A	L	S	S	D	S	R	L	P	R	R	P	P
R	G	R	P	R	P	C	R	Q	I	P	V	C	R	A	A	R	P
R	A	S	S	P	F	E	V	V	P	G	L	P	R	R	A	F	G
G	P	P	R	R	S	N	S	S	L	A	W	R	A	A	R	L	A
E	P	R	V	V	P	I	R	R	C	P	G	A	P	P	A	C	L
GAG	GCC	CGC	CTG	CTG	CCC	TTA	AGC	TGC	TGT	CCC	GGG	TCG	CCC	GCC	GCG	CGT	TTC
	50985			50994				51003			51012			51021			51030
CTC	CGG	GCG	GAC	GAC	GGG	AAT	TCG	ACG	ACA	GGG	CCC	AGC	GGG	CGG	CGC	GCA	AAG
L	R	A	D	D	G	N	S	T	T	G	P	S	G	R	R	A	K
S	G	R	T	T	G	I	R	R	Q	G	P	A	G	G	A	Q	S
P	G	G	R	R	E	F	D	D	R	A	Q	R	A	A	R	K	A

205220 "434300"

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CCA AAC GCC CGA GAC TGG ACC GCA CCA CTC CAC ACG TCC CCG TGC CCC TCA AGG
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K R P R L D R T T P H V P V P L K V
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G D E R R W A L A F R S P S L G R V
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P R T T V G G L S I L P A N G T A V
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L C I G L G A V L P K E A Y L P L H
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GAG GCA GAT GCC GAG CCC TGC GAC CAG GGG CTT CTC GGC GTA CAG AGG CAG ATG

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P G T R P A R P R P R R S R C * P A
L A Q G L P E R V L D G V E A D L H

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G P V R G A R G R G R R L R H Q G A

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S R R A P N R G C R A T R S P V P R
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GTC	TCC	GGC	GGC	GAC	GGC	TCC	CAG	CCC	GGC	GAC	CCG	GCG	AAG	GCG	GCG	GCG	GCG	CTG					

V	S	G	G	D	G	S	Q	P	G	D	P	A	K	A	A	A	A	L					
S	P	A	A	T	A	P	S	P	A	T	R	R	R	R	R	R	R	*					
L	R	R	R	R	L	P	A	R	R	P	G	E	G	G	G	G	A	D					

R	A	A	S	S	A	S	S	V	G	S	R	S	G	N	P	S	S						
G	P	R	A	P	P	P	R	S	G	A	A	A	A	T	P	R	R						
D	Q	G	R	Q	L	R	V	L	G	R	Q	P	Q	R	Q	A	V						

TAG	GAC	CGG	CGC	GAC	CTC	CGC	CTG	CTC	TGG	GGC	GAC	GCC	GAC	GGC	AAC	CCG	CTG						
51579				51588				51597				51606				51615				51624			
ATC	CTG	GCC	GCG	CTG	GAG	GCG	GAC	GAG	ACC	CCG	CTG	CGG	CTG	CCG	TTG	GGC	GAC						

I	L	A	A	L	E	A	D	E	T	P	L	R	L	P	L	G	D						
S	W	P	R	W	R	R	T	R	P	R	C	G	C	R	W	A	T						
P	G	R	A	G	G	G	R	D	P	A	A	A	A	V	G	R	R						

P	T	V	A	T	S	P	*	R	S	*	T	R	L	S	M	V	V						
R	P	*	Q	R	A	R	D	G	R	D	P	A	C	R	C	*	S						
V	P	D	S	G	H	E	T	V	E	I	L	H	A	V	V	D	R						

CTG	CCC	CAG	TGA	CGG	CAC	GAG	CCA	GTG	GAG	CTA	GTC	CAC	GCG	TTG	CTG	TAG	TGC						
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GAC	GGG	GTC	ACT	GCC	GTG	CTC	GGT	CAC	CTC	GAT	CAG	GTG	GCG	AAC	GAC	ATC	ACG						

D	G	V	T	A	V	L	G	H	L	D	Q	V	R	N	D	I	T						
T	G	S	L	P	C	S	V	T	S	I	R	C	A	T	T	S	R						
R	G	H	C	R	A	R	S	P	R	S	G	A	Q	R	H	H	D						

H	S	F	R	V	L	A	V	P	K	S	S	Q	P	W	R	G	R						
T	P	S	A	S	W	P	S	P	S	R	R	S	L	G	G	A	A						
R	P	L	L	P	G	P	R	R	A	E	V	V	S	A	V	P	R						

TGC	ACC	CTC	TTC	GCC	TGG	TCC	CGC	TGC	CCG	AAG	CTG	CTG	ACT	CCG	GTG	GCC	GGC						
51687				51696				51705				51714				51723				51732			
ACG	TGG	GAG	AAG	CGG	ACC	AGG	GCG	ACG	GGC	TTC	GAC	GAC	TGA	GGC	CAC	CGG	CCG						

T	W	E	K	R	T	R	A	T	G	F	D	D	*	G	H	R	P						
R	G	R	S	G	P	G	R	R	A	S	T	T	E	A	T	G	R						
V	G	E	A	D	Q	G	D	G	L	R	R	L	R	P	P	A	A						

L	L	P	Q	P	A	G	F	G	G	G	V	R	A	E	M	S	S						
C	F	L	N	P	P	A	S	D	A	G	*	G	R	K	W	P	P						
A	F	S	T	P	P	R	R	I	R	G	R	G	E	S	G	H	L						

GCG	TTT	TCT	CCA	ACC	CCC	CGC	GGC	TTA	GGC	GGG	GGA	TGG	GAG	CGA	AGG	TAC	CTC						
51741				51750				51759				51768				51777				51786			
CGC	AAA	AGA	GGT	TGG	GGG	GCG	CCG	AAT	CCG	CCC	CCT	ACC	CTC	GCT	TCC	ATG	GAG						

R	K	R	G	W	G	A	P	N	P	P	P	T	L	A	S	M	E						
A	K	E	V	G	G	R	R	I	R	P	L	P	S	L	P	W	R						
Q	K	R	L	G	G	A	E	S	A	P	Y	P	R	F	H	G	G						

S	C	L	T	Q	S	T	L	S	P	M	*	A	V	C	S	C	A						
L	A	S	R	R	P	L	L	A	R	C	R	R	W	A	P	V	P						

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K S R A S G K * G S A S T P R R N R
R A E R L G S K A R H L R H A G T G

S S I L S C I T L S R Q G S G S * A
P R S * P V S R * A G R G P G R D R
R V L D L F L D D P E E A R V G I V
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GCG GAC GAG ATC AAG GAA CAG ATC GTC AGG CTC CTC TGC CCG GAC CCC GAT CAC
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A D E I K E Q I V R L L C P D P D H
R T R S R N R S S G S S A R T P P I T
G R D Q G T D R Q A P L P G P R S R

G G Q G T G H D T M I S R S Q S A Y
G A R G P G T T P * S A A R S R R T
G R G A R D R P R D H H Q A V A V R
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P R P A R S R G R S * C C A T A T R
P A L P G P V V G H D A A R L R R V

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I R F Q P L L G P D F L V T S G A S
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I R N C G S R P G S N R T V E P A D
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L G L Q P V G L A E G P P R A D V E
S A F N R S A W P R A P R E P T * S

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10084846 02502

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G Q V F A R R P I V R V A G H P A H

L R R H S G R G P P L I R S R P S L
W G D I R G G G P H C S A P V R H S
G A T S A V G A R T A P H P F A T L

TGG TCG GCA GCT ACG CTG GGG GCG GGC CCA CCG TCC TAC GCC CTT GCG CCA CTC
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T S R R C D P R P G G R M R E R G E
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Q P S M R P P P G W Q D A G T R * E

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P A P A R H P P T L P L R H G P A P

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G R G R D G A E * A G G G G P G R A

S * S A A C A T T S S * A R A T S A
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R V P P G P V S G H A V P G A R A P
G Y P R G Q F R D M L L Q G P A L Q

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GCC GTA CGG GCG GCC CTG GAA CCG ATC CAT GAG CAA CTG GCC CGG CGC GAG CTG

10084846 02502

A V R A A L E P I H E Q L A R R E L
 P Y G R P W N R S M S N W P G A S W
 R T G G P G T D P * A T G P A R A G

 T M G T A R S D S R V S P L S R R P
 P * G P P G A T P G * R P C A A G P
 L D D R H G P Q R V E G L A P Q A Q

 CTC CAG TAG GGC CAC CGG GCC GAC AGC CTG GAG TGG CTC CCG TCC GAC GCG GAC
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 GAG GTC ATC CCG GTG GCC CGG CTG TCG GAC CTC ACC GAG GGC AGG CTG CGC CTG

 E V I P V A R L S D L T E G R L R L
 R S S R W P G C R T S P R A G C A W
 G H P G G P A V G P H R G Q A A P G

 S T S F P P N R V T P W T S S A P E
 P P P S P R T G S P R G P A R R R S
 P L H L L A P E P R D A L H E V G A

 CCC CTC CAC CTC TTC CCG CCC AAG GCC TGC CAG CCG GTC CAC GAG CTG CGG CCG
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 G E V E K G G F R T V G Q V L D A G
 G R W R R A G S G R S A R C S T P A
 G G G E G R V P D G R P G A R R R L

 Y R S R W S R P T P C C V A S W V T
 T G A A G A G R P R A A S R R G S P
 R V P Q A L E A P D P L L G G V L R

 AGC ATG GCC GAC GCG GTC GAG GCG CCC CAG CCC GTC GTC TGG CCG CTG GTC TGC
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 TCG TAC CGG CTG CGC CAG CTC CGC GGG GTC GGG CAG CAG ACC GCC GAC CAG ACG

 S Y R L R Q L R G V G Q Q T A D Q T
 R T G C A S S A G S G S R P P T R R
 V P A A P A P R G R A A D R R P D G

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 P R R G A S R R P Q V P C C R R V C
 H G G G L P D G L S Y P V A D G Y V

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 GTG GCC GCC GCC CAG CGG ATC GCC GAG GCT GTA CGG GAC AGC ATC GCC GTA CAC

 V A A A Q R I A E A V R D S I A V H
 W P P P S G S P R L Y G T A S P Y T
 G R R P A D R R G C T G Q H R R T H

 S T S L G S G R V V A S T T A S C T
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 TAG CTG CAC CTG TCC GGG CTC GGG GCC TGG TGG CGT GAC CAG CAG CGC GAC GTG

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I	D	V	D	R	P	E	P	R	T	T	A	L	V	V	A	L	H									
S	T	W	T	G	P	S	P	G	P	P	H	W	S	S	R	C	T									
R	R	G	Q	A	R	A	P	D	H	R	T	G	R	R	A	A	R									
S	T	S	A	P	G	S	A	R	R	A	T	S	A	P	P	A	S									
A	P	P	P	P	G	R	P	V	G	P	R	R	P	P	R	P	A									
H	Q	H	L	R	A	G	L	C	A	P	G	D	L	R	A	P	R									
CAC	GAC	CAC	CTC	CGC	CCG	GGG	CTC	CGT	GCG	GCC	CGG	CAG	CTC	CGC	CCG	CCC	CGC									
	52605			52614			52623			52632			52641			52650										
GTG	CTG	GTG	GAG	GCG	GGC	CCC	GAG	GCA	GCG	CGG	GCC	GTC	GAG	GCG	GGC	GGG	GCG									
V	L	V	E	A	G	P	E	A	R	R	A	V	E	A	G	G	A									
C	W	W	R	R	A	P	R	H	A	G	P	S	R	R	A	G	R									
A	G	G	G	G	P	R	G	T	P	G	R	R	G	G	R	G	A									
V	F	F	S	P	G	S	S	A	S	A	P	G	A	A	P	R	S									
S	S	S	A	R	G	A	A	P	R	P	P	A	P	P	L	G	A									
Q	R	L	L	E	A	R	Q	Q	G	L	R	P	R	R	C	A	P									
GAC	TGC	TTC	TTC	GAG	CCG	GGC	GAC	GAC	CGG	CTC	CGC	CCC	GGC	CGC	CGT	CCG	GCC									
	52659			52668			52677			52686			52695			52704										
CTG	ACG	AAG	AAG	CTC	GGC	CCG	CTG	CTG	GCC	GAG	GCG	GGG	CCG	GCG	GCA	GGC	CGG									
L	T	K	K	L	G	P	L	L	A	E	A	G	P	A	A	G	R									
*	R	R	S	S	A	R	C	W	P	R	R	G	R	R	Q	A	G									
D	E	E	A	R	P	A	A	G	R	G	G	A	G	G	R	P	A									
R	M	S	N	A	P	R	A	A	R	P	R	A	S	A	A	T	A									
A	C	A	T	R	P	A	P	R	V	P	V	P	A	P	P	R	P									
Q	A	H	Q	E	R	P	P	G	C	P	S	P	R	Q	R	G	H									
GAC	GCG	TAC	GAC	AAG	CGC	CCC	GCC	CGG	CGT	GCC	CCT	GCC	CGC	GAC	CGC	CGG	CAC									
	52713			52722			52731			52740			52749			52758										
CTG	CGC	ATG	CTG	TTC	GCG	GGG	CGG	GCC	GCA	CGG	GGA	CGG	GCG	CTG	GCG	GCC	GTG									
L	R	M	L	F	A	G	R	A	A	R	G	R	A	L	A	A	V									
C	A	C	C	S	R	G	G	P	H	G	D	G	R	W	R	P	W									
A	H	A	V	R	G	A	G	R	T	G	T	G	A	G	G	R	G									
S	I	R	A	S	V	S	C	A																		

E	G	L	G	R	D	V	Q	Q	A	A	R	A	G	L	H	G	G
GAG	CGG	GTC	CGG	AGC	CAG	CTG	GAC	GAC	GCG	GCG	GGC	CCG	AGG	CTC	CAC	CGG	CGG
52821				52830			52839			52848			52857			52866	
CTC	GCC	CAG	GCC	TCG	GTC	GAC	CTG	CTG	CGC	CGC	CCG	GGC	TCC	GAG	GTG	GCC	GCC
L	A	Q	A	S	V	D	L	L	R	R	P	G	S	E	V	A	A
S	P	R	P	R	S	T	C	C	A	A	R	A	P	R	W	P	P
R	P	G	L	G	R	P	A	A	P	P	G	L	R	G	G	R	P
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P	R	S	R	A	A	S	R	R	T	S	R	G	A	R	R	A	R
Q	D	V	E	L	Q	A	G	G	L	V	V	A	Q	E	G	L	E
GAC	CAG	CTG	AAG	CTC	GAC	GCG	AGG	CGG	CTC	ATG	ATG	CCG	GAC	GAG	CGG	CTC	GAG
52875				52884			52893			52902			52911			52920	
CTG	GTC	GAC	TTC	GAG	CTG	CGC	TCC	GCC	GAG	TAC	TAC	GGC	CTG	CTC	GCC	GAG	CTC
L	V	D	F	E	L	R	S	A	E	Y	Y	G	L	L	A	E	L
W	S	T	S	S	C	A	P	P	S	T	T	A	C	S	P	S	S
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P	R	A	G	S	G	A	A	A	S	P	N	R	G	S	S	T	A
P	G	R	G	R	G	R	P	P	R	P	T	G	A	P	R	P	P
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52929				52938			52947			52956			52965			52974	
TCG	GGC	CGC	GCC	CCC	GAC	CCC	GCG	GCG	GCC	GAG	GGG	TTC	CTG	CCG	GAC	GAG	GTG
S	G	R	A	P	D	P	A	A	A	E	G	F	L	P	D	E	V
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G	L	P	D	P	G	L	R	E	V	V	R	V	A	P	D	*	Q
CGG	CTC	GCC	CAG	TCC	TGG	GTC	CGC	GAG	CTG	CTG	TGC	GTG	GCG	GCC	CAG	AGT	GAC
52983				52992			53001			53010			53019			53028	
GCC	GAG	CGG	GTC	AGG	ACC	CAG	GCG	CTC	GAC	GAC	ACG	CAC	CGC	CGG	GTC	TCA	CTG
A	E	R	V	R	T	Q	A	L	D	D	T	H	R	R	V	S	L
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R	A	G	Q	D	P	G	A	R	R	H	A	P	P	G	L	T	A
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A	A	V	L	G	E	A	G	A	E	G	E	G	L	A	P	R	D
GCG	CCG	ATG	GTC	CGG	AAG	CCG	TGG	GCG	AAG	CGG	GAG	CGG	GTC	GCG	GCC	TGC	TAG
53037				53046			53055			53064			53073			53082	
CGC	GGC	TAC	CAG	GCC	TTC	GGC	ACC	CGC	TTC	GCC	CTC	GCC	CAG	CGC	CGG	ACG	ATC
R	G	Y	Q	A	F	G	T	R	F	A	L	A	Q	R	R	T	I
A	A	T	R	P	S	A	P	A	S	P	S	P	S	A	G	R	S
R	L	P	G	L	R	H	P	L	R	P	R	P	A	P	D	D	P

P S S I P S P L V I W A M A A S A C
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 E A V L H P E A L R D L G D G C E R

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 R R R D G A R Q D D P G H R R T R A

 R A A S P C L W K M T T Q G A L T S
 G L R R P A S G S * P P R D P W R A
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 H L A A E G Q S H F M V V C P A S V
 T * P P R G R A T S W W S V R P A C
 P S R R G A E P L H G G L S G Q R A

 I L Q V R S V S F R L T S R T V G S
 S * S S G P S R S A C H A A R S V A
 Q D V P G P L G L L A T H Q A H C R

 GAC TAG TTG ACC TGG GCC CTC TGG CTC TTC GCG TCA CAC GAC GCG CAC TGT GGC
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 CTG ATC AAC TGG ACC CGG GAG ACC GAG AAG CGC AGT GTG CTG CGC GTG ACA CCG

 L I N W T R E T E K R S V L R V T P
 * S T G P G R P R S A V C C A * H R
 D Q L D P G D R E A Q C A A R D T A

 C P G S R C S A N A S Q F P R P P T
 A R G R G A P R T R R S S P A P R R
 Q V A G V P L V R E G V P L P P A A

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 L H G P D R Q D A F A D W K G R G G
 C T A P T G R T R S P T G R G G A A
 A R P R P A G R V R R L E G A G R R

 A T V V K S A S R P K G A G P P P S
 R P * W R R R A A P S G P A R P R R
 D R D G G E V R Q P A E R R G P A A

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V A V T T F D A L R G F P A P G G G
S R S P P S T R C G A S R R P G A A
R G H H L R R A A G L P G A R G R R

T P M S T T S S A W * T F F G R V R
P P C A R R P R P G S R S S D G S G
L H A H E D H V L G V V H L I G P G

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E V G M L V V D E A H Y V K N P R T
R W A C S S W T R P T T * R I P G P
G G H A R R G R G P L R E E S P D P

R E M A T E S H A S C Q S R T S N R
G S W P R R R T P P A S R G R A T G
A A G H G D G L P R L V A V A H Q E

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A A P W P S P S G R S T A T A C C S
P L H G R L R V G G A L R P R A V P

V P V G M S F R T S S N R L R T R I
S R Y A W P S G R R P T G C G P A S
Q G T R G H L V A D L L E A A Q H P

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L T G T P M E N R V E E F R S L V R
* P V R P W R T A S R S S A A W C G
D R Y A H G E P R R G V P Q P G A D

R W G S S A S A M S S C S P T A P E
G G A R A P P P W R R A R R R P P S
D E L G L Q R L G D V L V V A H R A

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I L Q P E L A E A I D E H D G V A G
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L A N R L A T A G T * R R R L W C S
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G L R E A L R D C R D I Q A A V L L

AGG TTC CGC AAG GCG TTC CGC CAG CGT GGC CAG ATA GAC GCG GCG TTG GTC GTC

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53577	53586	53595	53604	53613	53622
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R P H R T P G A P A H G R V G G A Q					
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C P P R P P R G R P R A R R C S * P					
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C A R S L R R P P R T G * R S W C S					
A R D R * G G R R E R A E G R G V L					
A N R S T S A T T R S A S V S A A P					
R T G P R V P L P V R P A * P R P R					

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 R G R A G C R D R G P G V C S G R S
 G A A Q G A G T A G R A C V R A D L

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P L T G G A R R C C S T S S K A A A
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A R D R R V A R A S R P L R L P G *
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GCG CCC GGT CAC GCC GTA CTG CTC GCG CAG ATC GAG GCA GGC GGA GTG GGC CTC
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A P G H A V L L A Q I E A G G V G L
R P V T P Y C S R R S R Q A E W A S
A R S R R T A R A D R G R R S G P Q
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M C A A E T T I R Q S G C S L G V T
C A P R R R P S G R R A A A * A S R
V H L G G G H H D E A L R L E L R G
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TTG TAC GTC CGG CGG AGG CAC CAC TAG GAG ACG CTC GGC GTC GAG TTC GGC TGG
54225 54234 54243 54252 54261 54270
AAC ATG CAG GCC GCC TCC GTG GTG ATC CTC TGC GAG CCG CAG CTC AAG CCG ACC
-----
N M Q A A S V V I L C E P Q L K P T
T C R P P P W * S S A S R S S S R P
H A G R L R G D P L R A A A Q A D R
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S C W A T A R A W R M P W T R E T R
R V G P P R G H G G C P G P G S P G
D F V L R D G T G V A H A L D A R D
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CAG CTT GTG GTC CGC CAG CGG GCA CGG GTG GCG TAC CCG GTC CAG GCG AGC CAG
54279 54288 54297 54306 54315 54324
GTC GAA CAC CAG GCG GTC GCC CGT GCC CAC CGC ATG GGC CAG GTC CGC TCG GTC
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V E H Q A V A R A H R M G Q V R S V
S N T R R S P V P T A W A R S A R S
R T P G G R P C P P H G P G P L G P
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T C R R S Q V S P T S S R R T R I S
R A G G A R C P L P P R V G P A S A
A H V A Q E A R F P H V F A Q H P H
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GCG CAC GTG GCG GAC GAG ACG TGC CTT CCC CAC CTG CTT GCG GAC CAC GCC TAC
54333 54342 54351 54360 54369 54378
CGC GTG CAC CGC CTG CTC TGC ACG GAA GGG GTG GAC GAA CGC CTG GTG CGG ATG
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R V H R L L C T E G V D E R L V R M
A C T A C S A R K G W T N A W C G C
R A P P A L H G R G G R T P G A D A

S F L D R R N S A * A R R L A T A S
P S C T G G T R R K R G G C R P R R
Q L V L G A Q E V S V G A A A R D G
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GAC CTC TTG TTC AGG GCG GAC AAG CTG CGA ATG CGG GCG GCG TCG CGC CAG CGG
54387 54396 54405 54414 54423 54432
CTG GAG AAC AAG TCC CGC CTG TTC GAC GCT TAC GCC CGC CGC AGC GCG GTC GCC
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L E N K S R L F D A Y A R R S A V A
W R T S P A C S T L T P A A A R S P
G E Q V P P V R R L R P P Q R G R R

D V G S A T S M E S R A R A R W M T
T S V P R R R C R P G R G P G G C R
L R C R V G D V D R V E G Q G A V D
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54441 54450 54459 54468 54477 54486
GAG TCG ACA CCG GAC GCC GTC GAC ATC TCG GAC CTC GCC CTG GCC CGC CAC ATC
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E S T P D A V D I S D L A L A R H I
S R H R T P S T S R T S P W P A T S
V D T G R R R H L G P R P G P P H R

S S S C A R N P A H T G T A A G I R
P P P V P V T P P T L E P R R A * E
H L L F L C P Q P R S N R D G R R N
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CAC CTC CTC CTT GTC CGT GCC AAC CCC CGC ACT CAA GGC CAG CGG CGC GGA TAA
54495 54504 54513 54522 54531 54540
GTG GAG GAG GAA CAG GCA CGG TTG GGG GCG TGA GTT CCG GTC GCC GCG CCT ATT
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V E E E Q A R L G A * V P V A A P I
W R R N R H G W G R E F R S P R L F
G G G T G T V G G V S S G R R A Y S

H H R L H L G A L R H P Q G P P H P
T T A S T F A R W A T P S V Q L T P
P P P P P S P G G P P P A S R S P P
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GCC ACC ACC GCC TCC ACT TCC GGG CGG TCC GCC ACC CCG ACT GGA CCT CCC ACC
54549 54558 54567 54576 54585 54594
CGG TGG TGG CGG AGG TGA AGG CCC GCC AGG CGG TGG GGC TGA CCT GGA GGG TGG
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R W W R R * R P A R R W G * P G G W
G G G G G E G P P G G G A D L E G G
V V A E V K A R Q A V G L T W R V G

R R G P H E Q L R P H P H P P L P
G D E P T N K S D R I H I T H P C L
A T K R P T R P T A S T S P T P A S
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CCG GCA GAA GGC CCC ACA AGA ACC TCA GCG CCT ACA CCT ACC ACA CCC CCG TCT

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A V F R G V L G V A D V D G V G A E
P S S G V F L E S R M W M V W G Q R

C G R R V P R G R Q R Q L E V Q V V
A V E V C Q G G E S G S Y S S K F W
P L R S A S A A R A A A T A R S S G

CCC GTT GGA GCT GCG TGA CCG GCG GGA GCG ACG GCG ACA TCG AGC TGA ACT TGG
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G Q P R R T G R P R C R C S S T * T
G N L D A L A A L A A V A R L E P
A T S T H W P P S L P L * L D L N H

* T R H E N I E W W V T * C A R R S
E L A T S M * R G G S P R A P E E V
S L H P A * K D G V L R D L L S K S

TGA GTT CAC GCC ACG AGT AAA TAG AGG GTG GTC TGC CAG ATC GTC CGA GAA GCT
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ACT CAA GTG CGG TGC TCA TTT ATC TCC CAC CAG ACG GTC TAG CAG GCT CTT CGA

T Q V R C S F I S H Q T V * Q A L R
L K C G A H L S P T R R S S R L F D
S S A V L I Y L P P D G L A G S S T

R R L * P R H G C C R M S A R W S P
G A S D H G T V A A D C V Q A G P H
E Q P T M A Q S R L M A Y K R A L I

GAG GAC GCC TCA GTA CCG GAC ACT GGC GTC GTA GCG TAT GAA CGC GCG GTC CTA
54765 54774 54783 54792 54801 54810
CTC CTG CGG AGT CAT GGC CTG TGA CCG CAG CAT CGC ATA CTT GCG CGC CAG GAT

L L R S H G L * P Q H R I L A R Q D
S C G V M A C D R S I A Y L R A R M
P A E S W P V T A A S H T C A P G W

C R T R A L F G S A A V N A R P T P
V G R G P W F G V P Q W T P E R H L
S V E D P G S V W Q S G R Q S E T Y

CCT GTG GAG CAG GCC CGG TCT TTG GGT GAC CGA CGG TGC AAC CGA GAG CCA CAT
54819 54828 54837 54846 54855 54864
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G H L V R A R N P L A A T L A L G V
D T S S G P E T H W L P R W L S V *
T P R P G Q K P T G C H V G S R C R

W T S T I P R R W S P S P A T W D P
G P A P S R A D G P P H L P R G T R

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 A R C W * S G V S R R V K G P S S P
 P G A G D R A S P G G * R G R P V R

 T H P P A C P Y F S S P S G R S N P
 R T R L H A H T S V P P R A G P T R
 A H A S T R M P L F Q L A L G P L E

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 R V R R C A W V E T G G R A P G V R

 A S A Y T A S S T A T S K R G G S N
 R V R T P P P A P R P P S E A G R T
 A C E R L H R L Q D R H V K P G G L

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 G A L A * V A E L V A V D F R P P E
 A H S R R W R S W S R W T F G P P S
 R T R V G G G A G R G G L S A P R V

 S T C C R S G C S S A * * R R A S A
 R H V A G A G V R H L E D D A P V Q
 E I Y L V P E W V I F S M M P P C K

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 TTC GAT GTA CAG CAC CGG CTC CCA CAC GAT GAA GCT CAT CAT CGG CGG GCA CTT

 F D V Q H R L P H D E A H H R R A L
 S M Y S T G S H T M K L I I G G H L
 R C T A P A P T R * S S S S A G T C

 T C S R R A N S A V R R R P K W S T
 P A P D G P T R H S G G D Q S G A R
 R H L I E Q R E I R G E T K A E L E

 CGC CAC GTC CTA GAG GAC CGC AAG CTA CGC TGG GAG GCA GAA CCG AAG GTC GAG
 55089 55098 55107 55116 55125 55134
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 A V Q D L L A F D A T L R L G F Q L
 R C R I S W R S M R P S V L A S S S
 G A G S P G V R C D P P S W L P A R

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R T T R R Y A S A C S R A P T T A P
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D E D Y P P V R E R L V A R A Y D R
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55143 55152 55161 55170 55179 55188
GTC CTC GTC GTA CGG CGG TAC GCG CTC GCG CAG GAC CGC GCG GGC GTA GTC GCG
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V L V V R R Y A L A Q D R A G V V A
S S S Y G G T R S R R T A R A * S R
P R R T A V R A R A G P R G R S R G
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R S C A P C S P T T T G A C P S P R
D P A P R A P R R Q R V L V P L H G
T Q L L G P L V A N D Y W C L S I A
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CCA GAC CTC GTC CGG CCC GTC CTG CCG CAA CAG CAT GGT CGT GTC CCT CTA CCG
55197 55206 55215 55224 55233 55242
GGT CTG GAG CAG GCC GGG CAG GAC GGC GTT GTC GTA CCA GCA CAG GGA GAT GGC
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G L E Q A G Q D G V V V P A Q G D G
V W S R P G R T A L S Y Q H R E M A
S G A G R A G R R C R T S T G R W P
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G S T C W T S S R S C R S S T S R R
G A R A G H V A G R V A P V P R D G
E R E H V M Y Q E A F L P F Q D I E
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55251 55260 55269 55278 55287 55296
CTC CCG CTC GTG CAC CAT GTA CTG CTC CGC GAA CAG CGG GAA CTG GTC GAT CTC
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L P L V H H V L L R E Q R E L V D L
S R S C T M Y C S A N S G N W S I S
P A R A P C T A P R T A G T G R S P
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C T R S G P L W R A R R T S S N T W
A H E R G R C G V H G E H R P T R G
P M N E V G A A L T G K T D L L E D
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CGG CAT GTT CTC GAC CCC GGC AGC CAA CGT GCC CTT CGT GTC GAG GAG TTC GTC
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G M F S T P A A N V P F V S R S S S
A C S R P R Q P T C P S C R G V R P
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A G P R T R A A P A A E G T R D V R
L A Q A L E L L L P R R G Q E I S A
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55359 55368 55377 55386 55395 55404
CAG CGC CTG GGC GAG TTC GAG CAG CAG GGC CCG CCT CCC CTG TTC GAT CGA CGC
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Q R L G E F E Q Q G P P P L F D R R
S A W A S S S S R G R L P C S I D A
A P G R V R A A G A A S P V R S T R

P R R T P S S R K A W P V R R S A R
H D G R R R P G S Q G P F E A H L G
I T E E D A L V A K G L S S Q T F G

CTA CCA GAG GAG CAG CCG CTC CTG GCG AAA CGG GTC CCT TGA GAC GCA CTT CGG
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GAT GGT CTC CTC GTC GGC GAG GAC CGC TTT GCC CAG GGA ACT CTG CGT GAA GCC

D G L L V G E D R F A Q G T L R E A
M V S S S A R T A L P R E L C V K P
W S P R R R G P L C P G N S A * S P

R R A P P R C R S A W W G C P R C T
G G Q P R G A D A Q G G D A H D V P
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A A L R A A C I C L P T I R M V D R
P P C G R P A S A C P P S A W S T G

R R G R C S R P T * A P R V G W V C
E E E A A A E Q L E H Q G L E G C A
N K K R P L K K S N (M) S A * S G V R X15

CAA GAA GAA GGC GCC GTC GAA GAA CCT CAA GTA CGA CCG GAT TGA GGG GTG TGC
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GTT CTT CTT CCG CGG CAG CTT CTT GGA GTT CAT GCT GGC CTA ACT CCC CAC ACG

V L L P R Q L L G V H A G L T P H T
F F F R G S F L E F M L A * L P T R
S S S A A A S W S S C W P N S P H A

G Y P G P T S G Y L I R T R T C A S
G M L V R H R G T C F G L V P A R V
V W L S G T D V R V F D S Y P H V C

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H P * G P G V D P Y K I R V R V H A
T H K D P V S T R T K S E Y G C T H
P I R T R C R P V Q N P S T G A R T

I F A L * A A R C E D R S R R L R V
S L L W D R Q A V N T G H V V C V F
Q Y F G I V S R S M R G T F S A F S

GAC TAT TTT CGG TTA GTG CGA CGC GCT GTA AGC AGG GCA CTT GCT GCG TTT GCT

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55629	55638	55647	55656	55665	55674
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L I K A N H A A R H S S R E R R K R					
* * K P I T L R D I R P V N D A N E					
D K S Q S R C A T F V P * T T Q T N					
G G G A R G T R R V C G G I W G R Q					
E G V L A V L E V C A V A S G D G S					
S G W W R S W N * A R L R R D M G A					
TGA GGG GGT GGT CGC GCT GGT CAA GAT GCG TGC GTT GGC GGC TAG GTA GGG GCG					
55683 55692 55701 55710 55719 55728					
ACT CCC CCA CCA GCG CGA CCA GTT CTA CGC ACG CAA CCG CCG ATC CAT CCC CGC					
T P P P A R P V L R T Q P P I H P R					
L P H Q R D Q F Y A R N R R S I P A					
S P T S A T S S T H A T A D P S P L					
G C S S R R T V * T S P G R R S P G					
G A V Q G G P * E L V P A E G V P V					
A R L K V E Q D S L Y Q P R E S Q S					
ACG GGC GTT GAA CTG GAG GAC CAG TGA GTT CAT GAC CCC GGA GAG GCT GAC CCT					
55737 55746 55755 55764 55773 55782					
TGC CCG CAA CTT GAC CTC CTG GTC ACT CAA GTA CTG GGG CCT CTC CGA CTG GGA					
C P Q L D L L V T Q V L G P L R L G					
A R N L T S W S L K Y W G L S D W D					
P A T * P P G H S S T G A S P T G T					
P R R R V G R R S R T P S W R G G G					
P G V V Y E E A H A L Q R G V G E E					
R A S S T S R Q T L S N A V L A R R					
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P G R R R T P L R E R V G D Q R P P					
R A D D V L L C V S E L A T N A L L					
G P T T Y S S A * A S W R P T P S S					
R R G A R G H N G E E R G S H R R R					
V A D R G A M T E K K A D A I V A V					
W P T G G P W P K R R R T R * S P S					
GGT GCC GCA GGG CGG GCC GGT ACC AAA GGA AGA AGC GCA GGC GAT ACT GCC GCT					
55845 55854 55863 55872 55881 55890					
CCA CGG CGT CCC GCC CGG CCA TGG TTT CCT TCT TCG CGT CCG CTA TGA CGG CGA					
P R R P A R P W F P S S R P L * R R					
H G V P P G H G F L L R V R Y D G D					
T A S R P A M V S F F A S A M T A T					
G G R R P G R C R F P R V G F G R R					
D E A D L D V V A S R A Y G S G G V					

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T	R	R	T	S	T	W	S	L	P	V	P	T	G	R	V	G	S
GCA	GGA	GGC	GCA	GCT	CCA	GGT	GCT	GTC	GCC	TTG	CCC	GCA	TGG	GGC	TTG	GGG	GCT
	55899			55908			55917			55926			55935			55944	
CGT	CCT	CCG	CGT	CGA	GGT	CCA	CGA	CAG	CGG	AAC	GGG	CGT	ACC	CCG	AAC	CCC	CGA
R	P	P	R	R	G	P	R	Q	R	N	G	R	T	P	N	P	R
V	L	R	V	E	V	H	D	S	G	T	G	V	P	R	T	P	D
S	S	A	S	R	S	T	T	A	E	R	A	Y	P	E	P	P	T
G	R	R	L	R	G	R	D	A	G	P	R	R	A	P	R	C	T
V	G	V	F	A	A	A	T	Q	E	Q	D	A	R	Q	G	V	L
S	G	S	S	P	P	R	P	R	S	R	T	P	A	S	A	S	L
GCT	GGG	GCT	GCT	TCC	GCC	GGC	GCC	AGA	CGA	GGA	CCA	GCC	GCG	CGA	CCG	GCT	GTT
	55953			55962			55971			55980		55989				55998	
CGA	CCC	CGA	CGA	AGG	CGG	CCG	CGG	TCT	GCT	CCT	GGT	CGG	CGC	GCT	GGC	CGA	CAA
R	P	R	R	R	R	P	R	S	A	P	G	R	R	A	G	R	Q
D	P	D	E	G	G	R	G	L	L	L	V	G	A	L	A	D	K
T	P	T	K	A	A	A	V	C	S	W	S	A	R	W	P	T	S
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H	P	T	P	S	R	V	G	P	L	T	T	Q	A	S	N	A	T
CAC	CCC	GCA	CCC	GCT	CGC	TTG	CGG	GCC	GTT	TCA	GCA	GAC	CCG	GCT	CAA	GCG	GCA
	56007			56016			56025			56034		56043				56052	
GTG	GGG	CGT	GGG	CGA	GCG	AAC	GCC	CGG	CAA	AGT	CGT	CTG	GGC	CGA	GTT	CGC	CGT
V	G	R	G	R	A	N	A	R	Q	S	R	L	G	R	V	R	R
W	G	V	G	E	R	T	P	G	K	V	V	W	A	E	F	A	V
G	A	W	A	S	E	R	P	A	K	S	S	G	P	S	S	P	C
P	G	K	H	L	E	Q	P	P	R	L	R	E	A	S	A	C	S
L	A	R	T	C	N	R	H	L	G	*	D	K	P	Q	R	V	P
C	P	G	Q	A	I	G	T	S	A	E	I	K	R	S	V	C	L
CGT	CCC	GGG	AAC	ACG	TTA	AGG	ACA	CCT	CCG	GAG	TTA	GAA	AGC	CGA	CTG	CGT	GTC
	56061			56070			56079			56088		56097				56106	
GCA	GGG	CCC	TTG	TGC	AAT	TCC	TGT	GGA	GGC	CTC	AAT	CTT	TCG	GCT	GAC	GCA	CAG
A	G	P	L	C	N	S	C	G	G	L	N	L	S	A	D	A	Q
Q	G	P	C	A	I	P	V	E	A	S	I	F	R	L	T	H	R
R	A	L	V	Q	F	L	W	R	P	Q	S	F	G	*	R	T	G
L	C	L	S	N	V	H	G	Q	G	S	R	R	T	A	G	V	L
S	A	C	H	T	S	M	G	R	G	V	G	G	R	R	G	W	L
L	P	V	T	L	Q	C	A	G	A	W	E	A	A	D	G	G	C
CTC	TCC	GTG	TCA	CTC	AAC	TGT	ACG	GGG	ACG	GGT	GAG	GCG	GCG	CAG	CGG	GGG	TGT
	56115			56124			56133			56142		56151				56160	
GAG	AGG	CAC	AGT	GAG	TTG	ACA	TGC	CCC	TGC	CCA	CTC	CGC	CGC	GTC	GCC	CCC	ACA
E	R	H	S	E	L	T	C	P	C	P	L	R	R	V	A	P	T
R	G	T	V	S	*	H	A	P	A	H	S	A	A	S	P	P	Q
E	A	Q	*	V	D	M	P	L	P	T	P	P	R	R	P	H	K

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A G G I S S S G E S P L S A D Y G A
R V V S Q P P G R L H C H H T M G P
A C W R N L L V G * I A T I R * V R

TCG CGT GGT GGC TAA CTC CTC CTG GGG AGT CTA CCG TCA CTA CGC AGT ATG GGC
56169 56178 56187 56196 56205 56214
AGC GCA CCA CCG ATT GAG GAG GAC CCC TCA GAT GGC AGT GAT GCG TCA TAC CCG

S A P P I E E D P S D G S D A S Y P
A H H R L R R T P Q M A V M R H T R
R T T D * G G P L R W Q * C V I P G

F V P R G * R S P W R P G R R S G R
S S Q G G E A H R G G R G E G R A E
R L S A A R L T V A V A A R A A L R

CGC TTC TGA CCG GCG GGA GTC GCA CTG CCG GTG GCG CCG GGA GCG GCG CTC GGA
56223 56232 56241 56250 56259 56268
GCG AAG ACT GGC CGC CCT CAG CGT GAC GGC CAC CGC GGC CCT CGC CGC GAG CCT

A K T G R P Q R D G H R G P R R E P
R R L A A L S V T A T A A L A A S L
E D W P P S A * R P P R P S P R A S

R R E G R W P R G R P G Y G T R P R
D G S E G G R G G G L A T D L V R A
T E A R G A V A A G S P R I W Y A P

GCA GAG GCG AGA GGG GCG GTG CCG GCG GGG GCT CCC GGC ATA GGT CAT GCG CCC
56277 56286 56295 56304 56313 56322
CGT CTC CGC TCT CCC CGC CAC GGC CGC CCC CGA GGG CCG TAT CCA GTA CGC GGC

R L R S P R H G R P R G P Y P V R G
V S A L P A T A A P E G R I Q Y A G
S P L S P P R P P P R A V S S T R A

P L R R P R C S C R S G * P P G R G
R C V G H G V A V D H V E L R V V G
A A S A T A S L * M T F R L A S W A

GCG CCG TCT GCG GCA CCG GCT GTC GAT GTA GCA CTT GGA GTT CCG CCT GGT GCG
56331 56340 56349 56358 56367 56376
CGC GGC AGA CGC CGT GGC CGA CAG CTA CAT CGT GAA CCT CAA GGC GGA CCA CGC

R G R R R G R Q L H R E P Q G G P R
A A D A V A D S Y I V N L K A D H A
R Q T P W P T A T S * T S R R T T P

N P N R P R V R G R R S T R R R C R
T R T G L G S A G E D L L V A G V D
R E P E S A P R A R T S F Y P A S M

GGC AAG CCC AAG GCT CCG GCC TGC GCG GGA GCA GCT CTT CAT GCC GCG GCT GTA
56385 56394 56403 56412 56421 56430
CCG TTC GGC TTC CGA GGC CGG ACG CGC CCT CGT CGA GAA GTA CGG CGC CGA CAT

X14

P F G F R G R T R P R R E V R R R H
R S G S E A G R A L V E K Y G A D I
V R V P R P D A P S S R S T A P T S

A C T C S P G S R S R S R P R R P P
L A R V L L G Q V A V R D L G G L R
S R V Y L F A R F P * A I S A E S A

GCT CGC GTG CAT GTT CTT CCG GGA CTT GCC GAT GCG CTA GCT CCG GAG GCT CCG
56439 56448 56457 56466 56475 56484
CGA GCG CAC GTA CAA GAA GGC CCT GAA CGG CTA CGC GAT CGA GGC CTC CGA GGC

R A H V Q E G P E R L R D R G L R G
E R T Y K K A L N G Y A I E A S E A
S A R T R R P * T A T R S R P P R R

P W P A R R R G P P R R R P G S G C
L G L R E G G V R R D G G H D L V A
S A L A S A A S G A T A E T T W F R

CCT CCG GTT CCG CGA GCG GCG GCT GGG CCG CCA GCG GAG GCA CCA GGT CTT GGC
56493 56502 56511 56520 56529 56538
GGA GGC CAA GGC GCT CGC CGC CGA CCC GGC GGT CGC CTC CGT GGT CCA GAA CCG

G G Q G A R R R P G G R L R G P E P
E A K A L A A D P A V A S V V Q N R
R P R R S P P T R R S P P W S R T A

T * C R R S G S W G A R R P G P G R
H E A D V R G L G V R G G P A Q V A
M N L M S A V W V L G G E Q P R S R

GTA CAA GTC GTA GCT GCG CTG GGT CTG GTT GGG CGG GAG GAC CCC GGA CCT GGC
56547 56556 56565 56574 56583 56592
CAT GTT CAG CAT CGA CGC GAC CCA GAC CAA CCC GCC CTC CTG GGG CCT GGA CCG

H V Q H R R D P D Q P A L L G P G P
M F S I D A T Q T N P P S W G L D R
C S A S T R P R P T R P P G A W T A

P G S S G G G S C S T C R G P S P R
H V L L V E G Q V A R V G V R V R G
T S W F F R G R F L E Y V * G S E A

GCA CCT GGT CTT CTT GGA GGG GGA CTT GTC GAG CAT GTG GAT GGG CCT GAG CCG
56601 56610 56619 56628 56637 56646
CGT GGA CCA GAA GAA CCT CCC CCT GAA CAG CTC GTA CAC CTA CCC GGA CTC GGC

R G P E E P P P E Q L V H L P G L G
V D Q K N L P L N S S Y T Y P D S A
W T R R T S P * T A R T P T R T R P

A P L S P T R * R C R R G C * G C R
P L S H R R V D D V G A D A D G V A
P C P T V A Y T M S V P T R M V W L

GCC CGT CCC TCA CTG CCG CAT GCA GTA GCT GTG GCC GCA GGC GTA GTG GGT GTC

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56655	56664	56673	56682	56691	56700
CGG GCA GGG AGT	GAC GGC GTA CGT CAT	CGA CAC CGG CGT	CCG CAT CAC CCA CAG		
R A G S D G V R H R H R R P H H P Q	G Q G V T A Y V I D T G V R I T H S	G R E * R R T S S T P A S A S P T A			
S R R G P R R R S R R W R C R C C R	V E A A P G G V A V V G D V V V V G	S K P P R A E * P * S A M S L S L V			
GCT GAA GCC GCC GGC CCG GAG GAT GCC GAT GCT GCG GTA GCT GTT GCT GTT GTG	56709	56718	56727	56736	56745
CGA CTT CGG CGG CCG GGC CTC CTA CGG CTA CGA CGC CAT CGA CAA CGA CAA CAC					
R L R R P G L L R L R R H R Q R Q H	D F G G R A S Y G Y D A I D N D N T	T S A A G P P T A T T P S T T T T P			
G P R G R G R C A R P R C P R R C R	G L V A V A V A R V H G A R D G A V	A W S P W P W P V C T A P V T A P L			
GCG GGT CCT GCC GGT GCC GGT GCC GTG CGT GCA CCG GCC GTG CCA GCG GCC GTT	56763	56772	56781	56790	56799
CGC CCA GGA CGG CCA CGG CCA CGG CAC GCA CGT GGC CGG CAC GGT CGC CGG CAA					
R P G R P R P R H A R G R H G R R Q	A Q D G H G H G T H V A G T V A G N	P R T A T A T A R T W P A R S P A T			
R R R R W S P W S R L R G R A S C S	G V A D G L L G L D Y A D A H Q V V	A * P T A L F A L I T P T R T S F L			
GCG GAT GCC GCA GCG GTT CTT CCG GTT CTA GCA TCC GCA GGC GCA CGA CTT GTT	56817	56826	56835	56844	56853
CGC CTA CGG CGT CGC CAA GAA GGC CAA GAT CGT AGG CGT CCG CGT GCT GAA CAA					
R L R R R Q E G Q D R R R P R A E Q	A Y G V A K K A K I V G V R V L N	P T A S P R R P R S * A S A C * T T			
R G P C W R G P R R R C R S P R G S	G A L A G G G L D D G A D V P D G P	E P W P V V A W T T A P M S Q T A R			
GAG GCC GGT CCC GTG GTG GCG GGT CCA GCA GCG GCC GTA GCT GAC CCA GCG GGC	56871	56880	56889	56898	56907
CTC CGG CCA GGG CAC CAC CGC CCA GGT CGT CGC CGG CAT CGA CTG GGT CGC CCG					
L R P G H H R P G R R R H R L G R P	S G Q G T T A Q V V A G I D W V A R	P A R A P P P R S S P A S T G S P G			
R R * A P R R W C T G R R R R R C P	V G D L R G D G V H G E A A A G V R				

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F A T L G A T A L M D R P P P A S V
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CTT GCG GCA GTT CGG CCG GCA GCG GTT GTA CAG GGA GCC GCC GCC GCG GCT GTG
56925 56934 56943 56952 56961 56970
GAA CGC CGT CAA GCC GGC CGT CGC CAA CAT GTC CCT CGG CGG CGG CGC CGA CAC
---
E R R Q A G R R Q H V P R R R R R H
N A V K P A V A N M S L G G G A D T
T P S S R P S P T C P S A A A P T R
---
G R C P R V C R W P R R R * R R R P
G E V R G Y A V G H G G A D G E G H
A R S V A T R L A M A E P T V K A T
---
CCG GGA GCT GTG CCG GCA TGC GTT GCG GTA CCG GAG GCC GCA GTG GAA GCG GCA
56979 56988 56997 57006 57015 57024
GGC CCT CGA CAC GGC CGT ACG CAA CGC CAT GGC CTC CGG CGT CAC CTT CGC CGT
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G P R H G R T Q R H G L R R H L R R
A L D T A V R N A M A S G V T F A V
P S T R P Y A T P W P P A S P S P W
---
P R C R T S W R R W S T V R V R * R
R G A V L R G V G G R P * G C A D G
A A P L S D V L A E V L D G A R T V
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CCG CCG GCC GTT GCT CAG CTG GTT GCG GAG GTG CTC CAG TGG GCG TGC GCA GTG
57033 57042 57051 57060 57069 57078
GGC GGC CGG CAA CGA GTC GAC CAA CGC CTC CAC GAG GTC ACC CGC ACG CGT CAC
---
G G R Q R V D Q R L H E V T R T R H
A A G N E S T N A S T R S P A R V T
R P A T S R P T P P R G H P H A S P
---
P W * P R R S S W S P R W P R S S W
L G D R D A R R G A R V G L G A V G
S A M V T P A V V L E S A L A P * E
---
GCT CCG GTA GTG CCA GCC GCG CTG CTG GTC GAG CCT GCG GTT CCG GCC GAT GAG
57087 57096 57105 57114 57123 57132
CGA GGC CAT CAC GGT CGG CGC GAC GAC CAG CTC GGA CGC CAA GGC CGG CTA CTC
---
R G H H G R R D D Q L G R Q G R L L
E A I T V G A T T S S D A K A G Y S
R P S R S A R R P A R T P R P A T P
---
S R S R G R G R R G R N T W * R P R
V V A G D E V E E G G T R G D G R G
L * P E T R S R K A G P E D M V E A
---
GTT GAT GCC GAG GCA GGA GCT GGA GAA GCG GGG GCC AAG CAG GTA GTG GAG CCG
57141 57150 57159 57168 57177 57186
CAA CTA CGG CTC CGT CCT CGA CCT CTT CGC CCC CGG TTC GTC CAT CAC CTC GGC
---
Q L R L R P R P L R P R F V H H L G
N Y G S V L D L F A P G S S I T S A
T T A P S S T S S P P V R P S P R P

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S S L R S P S W C W R R Y T S P S G
P V * A V R R G V G D G T R R H R G
Q F E L S E A V L V M E P V D I A V

GAC CTT GAG TTC GCT GAG CCG CTG GTT GTG GTA GAG GCC ATG CAG CTA CCG CTG
57195 57204 57213 57222 57231 57240
CTG GAA CTC AAG CGA CTC GGC GAC CAA CAC CAT CTC CGG TAC GTC GAT GGC GAC

L E L K R L G D Q H H L R Y V D G D
W N S S D S A T N T I S G T S M A T
G T Q A T R R P T P S P V R R W R P

A R P P R R R A G G R R W G R P W G
R V H R A G G R E V E G G V G R G G
G C T A P A A A S W R A A L G E A V

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57249 57258 57267 57276 57285 57294
CCC GCA CGT GGC GGG CGC CGC CGC GCT CCA CCT CGC CGC CAA CCC CTC GGC CAC

P A R G G R R R A P P R R Q P L G H
P H V A G A A A L H L A A N P S A T
R T W R A P P R S T S P P T P R P P

T G P R W P A S T R R W W R R R * W
R G L D G R R Q R G G G G G A D D G
G D W T A V A S V D A A V V P T T V

GGG CAG GGT CCA GCG GTG CCG CGA CTG CAG GCG GCG GTG GTG GCC GCA GCA GTG
57303 57312 57321 57330 57339 57348
CCC GTC CCA GGT CGC CAC GGC GCT GAC GTC CGC CGC CAC CAC CGG CGT CGT CAC

P V P G R H G A D V R R H H R R R H
P S Q V A T A L T S A A T T G V V T
R P R S P R R * R P P P P P A S S P

G R C P S A W G A G T R R G A A R G
V G A R A R G V P E Q V D A P P V V
L G P V P E G L R S R Y T P R R C S

GTT GGG GCC GTG CCC GAG CCG GTT GGC CGA GGA CAT GCA GCC GGC CGC CGT GCT
57357 57366 57375 57384 57393 57402
CAA CCC CGG CAC GGG CTC GCC CAA CCG GCT CCT GTA CGT CGG CCG GCG GCA CGA

Q P R H G L A Q P A P V R R P A A R
N P G T G S P N R L L Y V G R R H D
T P A R A R P T G S C T S A G G T T

G E P G A S R S C R H S C S * R C S
V R R A R A E L V G T V V R D A V V
W G G P G R K S F V P S * V I L S L

GGT GGG AGG CCC GGG CGC GAA GCT CTT GTG GCC ACT GAT GTG CTA GTC GCT GTT
57411 57420 57429 57438 57447 57456
CCA CCC TCG GGG CCC GCG CTT CGA GAA CAC CGG TGA CTA CAC GAT CAG CGA CAA

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P P S G P A L R E H R * L H D Q R Q
H P P G P R F E N T G D Y T I S D N
T L R A R A S R T P V T T R S A T T

W P R T G P S P R R R R R C R A R P
G R D L G R H R D G A D G A V R G R
E V T S D G T V T E P T E P L A G E

GAG GTG CCA GCT CAG GGG CCA CTG CCA GAG GCC GCA GAG GCC GTT GCG CGG GAG
57465 57474 57483 57492 57501 57510
CTC CAC GGT CGA GTC CCC GGT GAC GGT CTC CGG CGT CTC CGG CAA CGC GCC CTC

L H G R V P G D G L R R L R Q R A L
S T V E S P V T V S G V S G N A P S
P R S S P R * R S P A S P A T R P R

G R R L P G C R G C T C R R G G P G
G E G Y L D V D D V R V D A V E L D
A R A T S T W M T W V Y M P S R W T

CCG GGA GCG GCA TCT CCA GGT GTA GCA GGT GTG CAT GTA GCC GCT GGA GGT CCA
57519 57528 57537 57546 57555 57564
GGC CCT CGC CGT AGA GGT CCA CAT CGT CCA CAC GTA CAT CGG CGA CCT CCA GGT

G P R R R G P H R P H V H R R P P G
A L A V E V H I V H T Y I G D L Q V
P S P * R S T S S T R T S A T S R S

A S R G R R C P T C A * T T R C R R
L Q D G G V A R R V R E L R V A G A
W S I A G S P V A Y V S L D Y P V P

GGT CGA CTA GCG GGG GCT GCC GTG CCG CAT GTG CGA GTT CAG CAT GCC GTG GCC
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CCA GCT GAT CGC CCC CGA CGG CAC GGC GTA CAC GCT CAA GTC GTA CGG CAC CGG

P A D R P R R H G V H A Q V V R H R
Q L I A P D G T A Y T L K S Y G T G
S * S P P T A R R T R S S R T A P A

C N P C C * C W T S P S R R R P P P
A T R V V D V G R V R H V G G R L R
P L E S L M L V V Y E T F A E E S A

GCC GTC AAG CCT GTT GTA GTT GTG GTG CAT GAG CCA CTT GCG GAG GAG CCT CCG
57627 57636 57645 57654 57663 57672
CGG CAG TTC GGA CAA CAT CAA CAC CAC GTA CTC GGT GAA CGC CTC CTC GGA GGC

R Q F G Q H Q H H V L G E R L L G G
G S S D N I N T T Y S V N A S S E A
A V R T T S T P R T R * T P P R R R

W R C T S V A P S R C R S S R C R A
G V A R P F Q P H A V V R V V V G P
A L P V H F S R T L S L A F * S V P

CCG GTT GCC GTG CAC CTT TGA CGC CCA CTC GCT GTT GCG CTT GAT GCT GTG GCC

57681	57690	57699	57708	57717	57726
GGC CAA CGG CAC GTG GAA ACT GCG GGT GAG CGA CAA CGC GAA CTA CGA CAC CGG					
G Q R H V E T A G E R Q R E L R H R					
A N G T W K L R V S D N A N Y D T G					
P T A R G N C G * A T T R T T T P G					
C L R R P A A T R A R G S W D * D D					
A Y V G P R Q L E L G G Q G T R T T					
R M S A Q A S C N * G E R V L G L R					
CGC GTA TCT GCG GAC CCG CGA CGT CAA GAT CGG GAG GGA CTG GTC AGG ATC AGC					
57735 57744 57753 57762 57771 57780					
CGC CAT AGA CGC CTG GGC GCT GCA GTT CTA GCC CTC CCT GAC CAG TCC TAG TCG					
A H R R L G A A V L A L P D Q S * S					
R I D A W A L Q F * P S L T S P S R					
A * T P G R C S S S P P * P V L V V					
E R C P V P D R G P W G R P R G V D					
R A A R C R T G V R G V A L V V W T					
G R P V A G P G S G A L R S S S G R					
AGG AGC GCC GTG CCG TGG CCC AGG GCT GGG CCG GTT GGC GCT CCT GCT GGG TGC					
57789 57798 57807 57816 57825 57834					
TCC TCG CGG CAC GGC ACC GGG TCC CGA CCC GGC CAA CCG CGA GGA CGA CCC ACG					
S S R H G T G S R P G Q P R G R P T					
P R G T A P G P D P A N R E D D P R					
L A A R H R V P T R P T A R T T H V					
P G P V G G G A L S D L G A P R P P					
R G R C A A E P L P T S A R Q A P H					
G A G A R R R R C P L R P G S P P T					
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57843 57852 57861 57870 57879 57888					
TCC GGC CCC GGC ACG CCG CCT CCG GCA AGG GAG TCG AGG CCC GCT GGG CGG GGT					
S G P G T P P P A R E S R P A G R G					
P A P A R R L R Q G S R G P L G G V					
R P R H A A S G K G V E A R W A G W					
Y P T G G G L G K S C P T D G A V C					
T R P A E G W A R R A P P T G L * A					
P V P H R G G L G E L L P H G W S R					
CCC ATG CCC CAC GGA GGG GGG TTC GGG AAG CTC GTC CCC CAC AGG GGT CGA TGC					
57897 57906 57915 57924 57933 57942					
GGG TAC GGG GTG CCT CCC CCC AAG CCC TTC GAG CAG GGG GTG TCC CCA GCT ACG					
G Y G V P P P K P F E Q G V S P A T					
G T G C L P P S P S S R G C P Q L R					
V R G A S P Q A L R A G G V P S Y A					
A A G I P R T G G R A R L R T R R S					
H Q A S P A R V G V P G C D R V A P					

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M	S	R	R	H	P	A	Y	G	W	P	G	A	T	A	Y	P	P
GTA	CGA	CGC	GGC	TAC	CCC	GCG	CAT	GGG	GGT	GCC	CGG	GCG	TCA	GCG	CAT	GCC	GCC
	57951			57960			57969			57978			57987			57996	
CAT	GCT	GCG	CCG	ATG	GGG	CGC	GTA	CCC	CCA	CGG	GCC	CGC	AGT	CGC	GTA	CGG	CGG
H	A	A	P	M	G	R	V	P	P	R	A	R	S	R	V	R	R
M	L	R	R	W	G	A	Y	P	H	G	P	A	V	A	Y	G	G
C	C	A	D	G	A	R	T	P	T	G	P	Q	S	R	T	A	G
P	S	T	D	P	P	T	R	G	C	H	G	A	D	V	R	P	V
L	P	R	T	P	P	H	G	G	A	T	V	P	T	L	V	R	C
F	P	V	H	R	P	T	D	A	R	L	S	R	R	*	C	A	A
CTT	CCC	CTG	CAC	AGC	CCC	CCA	CAG	GCG	GGC	GTC	ACT	GGC	CGC	AGT	TGT	GCG	CCG
	58005			58014			58023			58032			58041			58050	
GAA	GGG	GAC	GTG	TCG	GGG	GGT	GTC	CGC	CCG	CAG	TGA	CCG	GCG	TCA	ACA	CGC	GGC
E	G	D	V	S	G	G	V	R	P	Q	*	P	A	S	T	R	G
K	G	T	C	R	G	V	S	A	R	S	D	R	R	Q	H	A	A
R	G	R	V	G	G	C	P	P	A	V	T	G	V	N	T	R	H
E	Q	G	L	P	A	A	P	G	L	V	S	V	G	R	R	P	G
R	R	A	W	P	H	R	R	D	S	S	P	C	G	G	A	R	G
G	G	P	G	L	T	G	G	T	R	P	R	V	G	G	P	A	A
TGG	AGG	ACC	GGG	TTC	CCA	CGG	CGG	CCA	GGC	TCC	TGC	CTG	TGG	GGG	GCC	GCG	CCG
	58059			58068			58077			58086			58095			58104	
ACC	TCC	TGG	CCC	AAG	GGT	GCC	GCC	GGT	CCG	AGG	ACG	GAC	ACC	CCC	CGG	CGC	GGC
T	S	W	P	K	G	A	A	G	P	R	T	D	T	P	R	R	G
P	P	G	P	R	V	P	P	V	R	G	R	T	P	P	G	A	A
L	L	A	Q	G	C	R	R	S	E	D	G	H	P	P	A	R	P
S	G	C	R	L	G	L	S	R	A	G	G	G	V	G	W	L	G
R	G	V	V	C	G	L	A	V	R	V	G	V	W	G	G	C	A
G	V	W	L	A	V	W	P	*	A	C	G	W	G	G	G	V	P
GGG	CTG	GGT	GTT	GCG	TTG	GGT	TCC	GAT	GCG	CGT	GGG	GGT	GGG	TGG	GGG	GTG	TCC
	58113			58122			58131			58140			58149			58158	
CCC	GAC	CCA	CAA	CGC	AAC	CCA	AGG	CTA	CGC	GCA	CCC	CCA	CCC	ACC	CCC	CAC	AGG
P	D	P	Q	R	N	P	R	L	R	A	P	P	P	T	P	H	R
P	T	H	N	A	T	Q	G	Y	A	H	P	H	P	P	P	T	G
R	P	T	T	Q	P	K	A	T	R	T	P	T	H	P	P	Q	A
G	C	A	H	A	R	A	G	G	G	G	R	S	*	W	R	R	P
A	A	P	M	R	V	R	V	G	V	V	A	P	D	G	G	E	P
R	R	L	C	A	C	A	C	G	W	W	R	P	I	V	V	K	P
GGC	GGC	GTC	CGT	ACG	CGT	GCG	CGT	GGG	GGT	GGT	GGC	GCC	CTA	GTG	GTG	GAA	GCC
	58167			58176			58185			58194			58203			58212	
CCG	CCG	CAG	GCA	TGC	GCA	CGC	GCA	CCC	CCA	CCA	CCG	CGG	GAT	CAC	CAC	CTT	CGG
P	P	Q	A	C	A	R	A	P	P	P	P	R	D	H	H	L	R
R	R	R	H	A	H	A	H	P	H	H	R	G	I	T	T	F	G
A	A	G	M	R	T	R	T	P	T	T	A	G	S	P	P	S	G

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G	W	K	T	G	G	R	G	G	S	V	M	R	G	T	T	R	W
D	G	N	R	G	A	E	G	G	A	*	W	E	G	L	R	V	G
T	G	M	E	D	R	R	A	G	R	K	G	N	A	W	D	Y	A
CCA	GGG	GTA	AAG	CAG	GGC	GGA	GCG	GGG	GGC	GAA	TGG	TAA	GCG	GGT	CAG	CAT	GCG
	58221			58230			58239			58248			58257			58266	
GGT	CCC	CAT	TTC	GTC	CCG	CCT	CGC	CCC	CCG	CTT	ACC	ATT	CGC	CCA	GTC	GTA	CGC
G	P	H	F	V	P	P	R	P	P	L	T	I	R	P	V	V	R
V	P	I	S	S	R	L	A	P	R	L	P	F	A	Q	S	Y	A
S	P	F	R	P	A	S	P	P	A	Y	H	S	P	S	R	T	P
N	G	G	G	P	G	A	A	R	V	L	L	V	T	G	T	D	M
T	G	A	A	R	G	Q	R	G	F	W	S	C	P	V	R	T	W
L	E	R	R	G	A	R	G	G	S	G	P	A	R	Y	G	H	G
GTC	AAG	GGC	GGC	GGG	CCG	GGA	CGG	CGG	GCT	TGG	TCC	TCG	TGC	CAT	GGG	CAC	AGG
	58275			58284			58293			58302			58311			58320	
CAG	TTC	CCG	CCG	CCC	GGC	CCT	GCC	GCC	CGA	ACC	AGG	AGC	ACG	GTA	CCC	GTG	TCC
Q	F	P	P	P	G	P	A	A	R	T	R	S	T	V	P	V	S
S	S	R	R	P	A	L	P	P	E	P	G	A	R	Y	P	C	P
V	P	A	A	R	P	C	R	P	N	Q	E	H	G	T	R	V	H
G	G	G	G	P	G	W	C	G	C	P	D	G	S	C	G	W	P
V	E	A	G	R	V	G	V	A	A	L	T	G	P	A	A	G	L
Y	R	R	G	G	S	G	L	L	R	L	P	G	R	L	L	G	L
TAT	GGA	GGC	GGG	GGG	CCT	GGG	GTT	GTC	GGC	GTT	CCC	AGG	GGC	CTC	GTC	GGG	GTT
	58329			58338			58347			58356			58365			58374	
ATA	CCT	CCG	CCC	CCC	GGA	CCC	CAA	CAG	CCG	CAA	GGG	TCC	CCG	GAG	CAG	CCC	CAA
I	P	P	P	P	G	P	Q	Q	P	Q	G	S	P	E	Q	P	Q
Y	L	R	P	P	D	P	N	S	R	K	G	P	R	S	S	P	K
T	S	A	P	R	T	P	T	A	A	R	V	P	G	A	A	P	R
C	F	A	C	P	W	Y	G	G	G	D	G	Y	G	C	P	A	G
A	S	R	A	P	G	T	G	A	V	T	A	M	G	A	R	R	V
P	L	V	R	L	A	L	V	R	W	R	R	W	V	R	V	A	C
CCC	GTC	TTG	CGC	GTC	CCG	GTC	ATG	GGC	GGT	GGC	AGC	GGT	ATG	GGC	GTG	CCG	CGT
	58383			58392			58401			58410			58419			58428	
GGG	CAG	AAC	GCG	CAG	GGC	CAG	TAC	CCG	CCA	CCG	TCG	CCA	TAC	CCG	CAC	GGC	GCA
G	Q	N	A	Q	G	Q	Y	P	P	P	S	P	Y	P	H	G	A
G	R	T	R	R	A	S	T	R	H	R	R	H	T	R	T	A	H
A	E	R	A	G	P	V	P	A	T	V	A	I	P	A	R	R	T
P	A	G	P	G	Y	A	Y	W	W	G	*	P	E	W	L	G	*
R	P	G	P	V	T	R	T	G	G	G	R	R	S	G	C	G	R
G	P	G	R	S	R	V	R	V	V	V	G	V	A	G	V	A	G
GGG	CCC	CGG	GGC	CCT	GGC	ATG	CGC	ATG	GTG	GTG	GGG	ATG	CCG	AGG	GTG	TCG	GGG
	58437			58446			58455			58464			58473			58482	
CCC	GGG	GCC	CCG	GGA	CCG	TAC	GCG	TAC	CAC	CAC	CCC	TAC	GGC	TCC	CAC	AGC	CCC

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R G G R V R * R R R W R R G P G R C
V A A G C G D V A D G D A G Q D E A

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Y G R P A P V N G V A I G A L V L G
T A A P H P S T A S P S A P W S S A
R P P R T R Q R R R H R R P G P R H

R Q K R G A T P S T S P S I A S A C
G R S E A P R L A P A P V S R A P A
D E A K Q R G Y P Q H Q S Q D R Q R

TAG GAG ACG AAA GAC GGC CGG CAT CCC GAC CAC GAC CCT GAC TAG CGC GAC CGC
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ATC CTC TGC TTT CTG CCG GCC GTA GGG CTG GTG CTG GGA CTG ATC GCG CTG GCG

I L C F L P A V G L V L G L I A L A
S S A F C R P * G W C W D * S R W R
P L L S A G R R A G A G T D R A G A

I L F R P S R P L P M A I A P E T S
S * S A P R A L C P C P S L R N P A
L D L L P A L S A L A H R Y G T R H

GTC TAG TTC TTC GCC CCG CTC GCT CCG TTC CCG TAC CGC TAT CGG CCA AGC CAC
58599 58608 58617 58626 58635 58644
CAG ATC AAG AAG CGG GGC GAG CGA GGC AAG GGC ATG GCG ATA GCC GGT TCG GTG

Q I K K R G E R G K G M A I A G S V
R S R S G A S E A R A W R * P V R C
D Q E A G R A R Q G H G D S R F G A

E Q T P S T R H V T D S D V P K V E
R R R R V R G T S P T A T W P S * R
E G A D S E D Q P R H R Q G R A E G

GAG AGG ACG CAG CCT GAG CAG GAC ACC TGC CAC AGC GAC AGG TGC CCG AAG TGG
58653 58662 58671 58680 58689 58698
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L S C V G L V L W T V S L S T G F T
S P A S D S S C G R C R C P R A S P
L L R R T R P V D G V A V H G L H L

S T T S P K L S A A L P S P V G * A
R R R R R S * P R R S R R P C G R R
G V D D V A E L V G R A A L A G G V

AGG CTG CAG CAG CTG CCG AAG TTC CTG CGG CGC TCG CCG CTC CCG TGG GGG ATG

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P T S S T A S R T P R A A R A P P T					
R R R R R L Q G R R E R R G H P L R					
R A L P S Q K S E A V S V R S P A A					
G R W P R S S R S P S R C G P P R P					
G E G L A V A E V R R G V G Q L A R					
CGG GAG CGG TTC CCG CTG ACG AAG CTG AGC CGC TGG CTG TGG GAC CTC CCG CGC					
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GCC CTC GCC AAG GGC GAC TGC TTC GAC TCG GCG ACC GAC ACC CTG GAG GGC GCG					
A L A K G D C F D S A T D T L E G A					
P S P R A T A S T R R P T P W R A R					
P R Q G R L L R L G D R H P G G R G					
* S T S S T G Q E A A C S P S T N A					
R R R P R P A R S R R A R R R P T R					
G V V H V L H G A G G R V V A L H E					
CGG ATG CTG CAC CTG CTC CAC GGG ACG AGG CGG CGC GTG CTG CCG CTC CAC AAG					
58815 58824 58833 58842 58851 58860					
GCC TAC GAC GTG GAC GAG GTG CCC TGC TCC GCC GCG CAC GAC GGC GAG GTG TTC					
A Y D V D E V P C S A A H D G E V F					
P T T W T R C P A P P R A T T A R C S					
L R R G R G A L L R R A R R R G V R					
T T V R G P P A K G P S S S S V R V					
P R * G G R R R R G P R R R V * G S					
R D D G E G A A G E R A V V F E G P					
CGC CAG CAG TGG GAG GGC CCG CCG CGG AAG GGC CCG CTG CTG CTT GAG TGG GCC					
58869 58878 58887 58896 58905 58914					
GCG GTC GTC ACC CTC CCC GGC GGC GCC TTC CCG GGC GAC GAC GAA CTC ACC CGG					
A V V T L P G G A F P G D D E L T R					
R S S P S P A A P S R A T T N S P G					
G R H P P R R R L P G R R R T H P D					
A S S L H * A S E A A V G H V G P G					
R R P C T N R A R R R * A M S V Q A					
G G L V L T V R E G G S R W P C R P					
TGG CGG CTC CTG TTC ACA ATG CGC GAG AGG CGG CGA TGC GGT ACC TGT GGA CCC					
58923 58932 58941 58950 58959 58968					
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T A E D K C Y A L S A A T P W T P G					
P P R T S V T R S P P L R H G H L G					
R R G Q V L R A L R R Y A M D T W A					
Y R V V R V D V V E D R G A L A P A					
T G S S A S T * * K M G V R W L Q R					

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R V P R R P R R S S * G S G G S S A
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CCG TAC CGG ACG ACG CGG ACG TCT ACT ACT TCA TCC CGA CCC GCC AGA GCT GGC
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R T G R R G R L L L H P D P P E L A
V P D D A D V Y Y F I P T R Q S W R
---
E A V A L D G A Q E A G R L V V A L
K P S R S I V Q R N P A V C S S P L
S R R G R S * R G T R R W A P R R C
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59031 59040 59049 59058 59067 59076
GCT TCG GCG ACC GCG AGA TCA CCT GCC TGT TCG GCG CCA CGC AGG ACG ACG GCA
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L R R P R D H L P V R R H A G R R Q
F G D R E I T C L F G A T Q D D G K
---
Q G A * Q A A V R R C E V G V L D G
S V P E S R L S G V V S S A S W T A
A S R S V A C R G S S V R R R G P R
---
TCG ACT GGC CGA GTG ACG CGT CGC TGG GCT GCT GTG AGC TGC GGC TGG TCC AGC
59085 59094 59103 59112 59121 59130
AGC TGA CCG GCT CAC TGC GCA GCG ACC CGA CGA CAC TCG ACG CCG ACC AGG TCG
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S * P A H C A A T R R H S T P T R S
A D R L T A Q R P D D T R R R P G R
L T G S L R S D P T T L D A D Q V A
---
E E G R G V G D V G R Q V L L R L F
K R E A V L A T S V A S Y S S G S S
R G R R S W R R R C R A T R P A P P
---
GGA ACG AGA GGC GCT GGT TGC GGC AGC TGT GGC CCG ACA TGC TCC TCG GCC TCC
59139 59148 59157 59166 59175 59184
CCT TCC TCT CCG CGA CCA ACG CCG TCG ACA CCG CGC TGT ACG AGG AGC CGG AGG
---
P S S P R P T P S T P R C T R S R R
L P L R D Q R R R H R A V R G A G G
F L S A T N A V D T A L Y E E P E E
---
V R L V V Q G R V L G P R L V D V G
Y A S S S R A A F L A Q A F S T W A
I R P P R G P R S C P R P S P R G R
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TTA TGC GCC TCC TGC TGG ACC GGC GCT TGT TCC GGA CCC GCT TCC TGC AGG TGC
59193 59202 59211 59220 59229 59238
AAT ACG CGG AGG ACG ACC TGG CCG CGA ACA AGG CCT GGG CGA AGG ACG TCC ACG
---
N T R R T T W P R T R P G R R T S T
I R G G R P G R E Q G L G E G R P R
Y A E D D L A A N K A W A K D V H A

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H E A L L D L A A R V C S A S P R R
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 CCG TGC TCG GCG AGC AGA TCG AGG GCT GCG CGG ACA CAG CTG GCC GAA GGG CGC

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 R A R R A D R G L R G H S W P K G A
 V L G E Q I E G C A D T A G R R A P

 R A P R R D P R P S P P R G S P S P
 G L R D G I Q D L L H L V G P L V P
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 GCG GCT CGG CCA GCG GCT AGA CCA GCT CCT CTA CCT CCT GCG GGC CTT CCT GAC
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 A E P V A D L V E E M E D A R K D W
 P S R S P I W S R R W R T P G R T G

 S P P P P W S R P C T S C T S R C R
 R L R R R G R V R V R V V R V V V A
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 R R R R R P R T R T R T T R T T T A

 I R T R R R G R S R * R A C P E P G
 S V L V D V A G R G D G R A L S Q A
 P Y S Y T S P G A V T V A R L A R P

 GCC TAT GCT CAT GCA GCT GCC GGG GCG CTG GCA GTG GCG CGC GTT CCG AGA CCC
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 G Y E Y V D G P A T V T A R K A L G
 D T S T S T A P R P S P R A R L W A

 P C W R A T T R P P G R C R R C R S
 Q V G G H R R V L L V G A G A V A P
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A L A A A A A A E I H S R L H S R P
L S P P L P P P R L T H A S T H A R

CTC GCT CCC GCC GTC GCC GCC GCC GGA GTT ACA CAC TCG CCT CCA CAC TCG CGC
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E R G R Q R R R P Q C V S G G V S A
S E G G S G G G L N V * A E V * A R
A R A A A A A A S M C E R R C E R G

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* L P S F T G A Y L G G C A C T M V
S Y R P S L A Q T F G E A R V L * *

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L * R G E S A C V K P S A R T S H H
Y S G E K V P A * S P P H A Q V I T

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D L S E R A K A Q V P C G L T A L S
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I E * F S G L C L H G T T Q G C Q A
S S D S L A F A C T G Q P R V A R L

Q Q R Y L S I P A A L S K R H A A P
N S D T C A S P L P W H S E T L L R
T A T Q V L Q H S R G T V K P S C G

ACA ACG ACA GAC ATG TTC GAC TAC CCT CGC CGG TCA CTG AAA GCC ACT CGT CGG
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TGT TGC TGT CTG TAC AAG CTG ATG GGA GCG GCC AGT GAC TTT CGG TGA GCA GCC

C C C L Y K L M G A A S D F R * A A
V A V C T S * W E R P V T F G E Q P
L L S V Q A D G S G Q * L S V S S R

T G A R R P H D G C S S R * R N V A
H V Q A D R T I E A L L D D V T * Q
T Y R R T A P S R R L F I T L P E S

CCA CAT GGA CGC GCA GCG CCC ACT AGA GGC GTT CTT CTA GCA GTT GCC AAG TGA

59733	59742	59751	59760	59769	59778
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G V P A R R G * S P Q E D R Q R F T					
V Y L R V A G D L R K K I V N G S L					
C T C A S R V I S A R R S S T V H C					

V A C G G G T G P W S G					
W R V G A E R G L G P D					
G G C V R R G D W A L I					

CGG TGG CGT GTG GGC GGA GGG CAG GGT CCG GTC CTA GG 5'					
59787	59796	59805	59814		
GCC ACC GCA CAC CCG CCT CCC GTC CCA GGC CAG GAT CC 3'					

A T A H P P P V P G Q D					
P P H T R L P S Q A R I					
H R T P A S R P R P G S					

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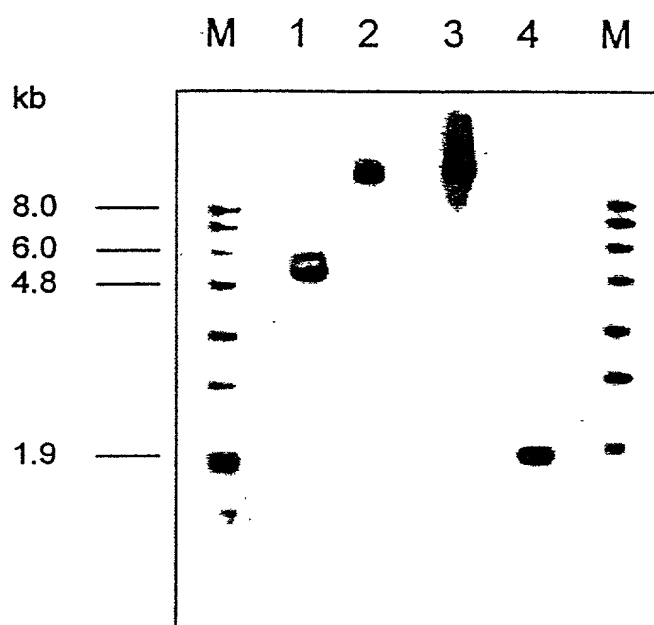


Figure 110

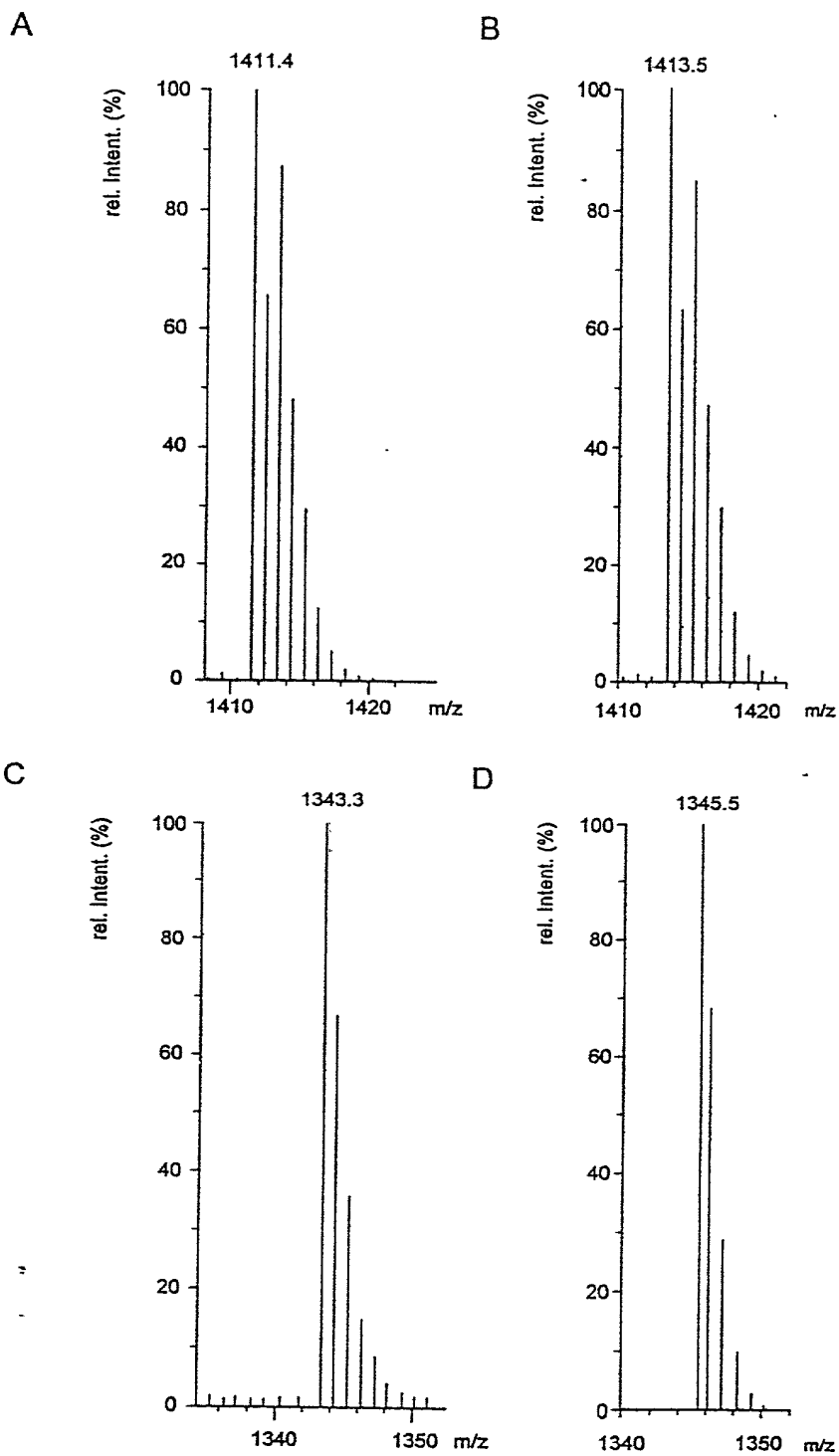


Figure 111

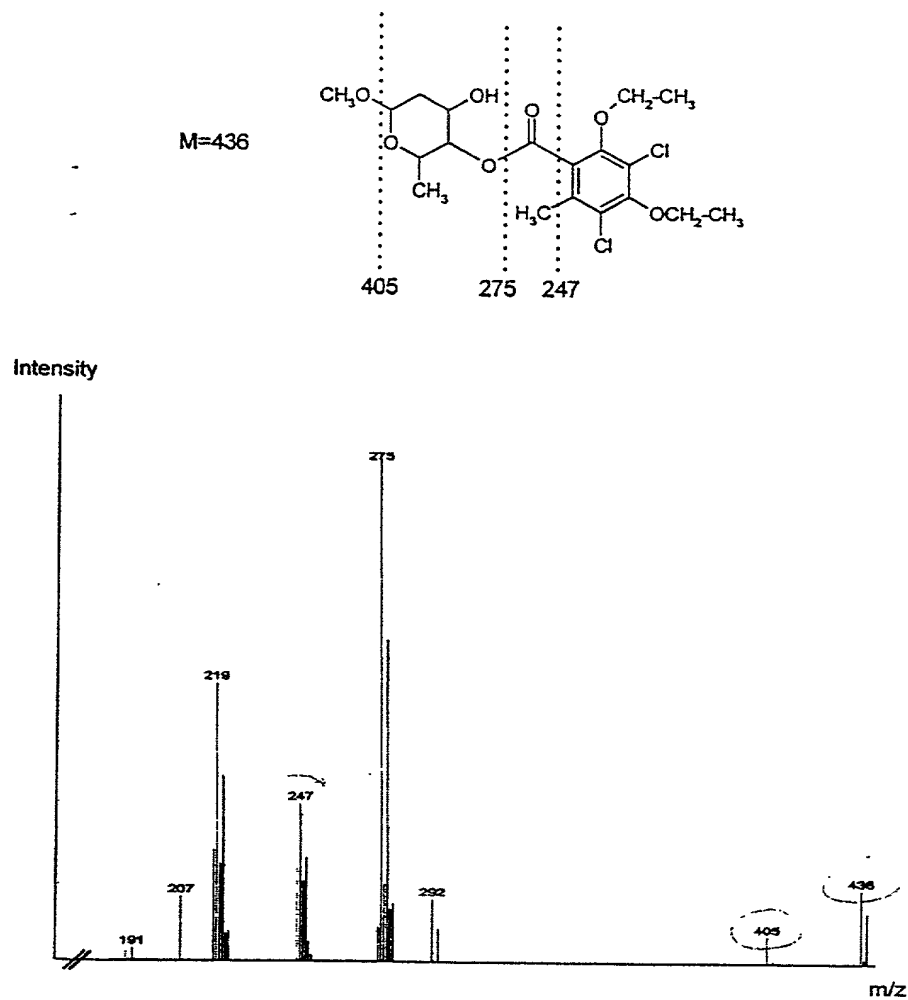


Figure 112